

ANNUAL REPORT

OF THE

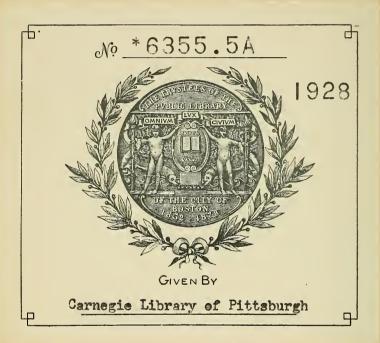
TRANSIT DEPARTMENT



OF THE

CITY OF BOSTON

1928





COMPLIMENTS OF

TRANSIT DEPARTMENT—CITY OF BOSTON

THOMAS F. SULLIVAN, Chairman, NATHAN A. HELLER, JAMES B. NOYES, Commissioners.



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REPORT

OF THE

TRANSIT DEPARTMENT

FOR THE

YEAR ENDING DECEMBER 31, 1928



CITY OF BOSTON
PRINTING DEPARTMENT
1929



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ANNUAL REPORT

OF THE

TRANSIT DEPARTMENT

FOR THE YEAR ENDING DECEMBER 31, 1928.

1 Beacon Street, Boston, Mass., January 1, 1929.

To the Mayor and City Council of the City of Boston:

The Transit Department submits the following report for the year ending December 31, 1928:

DORCHESTER RAPID TRANSIT.

During 1928 two additional sections of the Dorchester Rapid Transit were completed and on September 1 the railway company commenced operation of the rapid transit line from the Fields Corner Station to Ashmont Station, the Dorchester terminal of the third rail service. The length of the rapid transit service from Harvard Square in Cambridge to the Ashmont Station in the Dorchester district of Boston is a little more than nine miles, the service is frequent, and the running time, including stops at all stations, is twenty-five minutes. The stations in the City of Boston are Park Street Under, Washington, South Station Under, Broadway, Andrew Square, Columbia Road, Savin Hill, Fields Corner, Shawmut and Ashmont.

An overpass furnishing convenient access to the Columbia Road Station to passengers from Crescent avenue is now under construction.

Other work in connection with the opening of this line has called for the construction of buildings over the station entrances at Shawmut and Ashmont, and their equipment.

In order to insure greater safety for railway and vehicular traffic it was necessary to relocate the easterly abutment of the Geneva Avenue Bridge. This work had to be done in a very limited space without interfering with railway traffic, trolley and third rail.

A terminal storage yard, eleven and one-half acres in area, with the necessary buildings, has been constructed at Codman Street. The yard now has track storage for ninety rapid transit cars and sufficient space remains to provide for more than two hundred cars if necessary, as well as room for a repair shop.

The Ashmont Station near Peabody Square is a transfer point for a large section of Dorchester. Provision is made for an interchange of traffic between third rail, high speed trolley, surface cars and buses. The platforms now in use can easily be extended whenever needed. A parking area adjoins the station with a capacity for about two hundred automobiles. There is a direct connection between this area and the station.

From Ashmont Station to Mattapan service will be furnished by high speed trolley cars operating in a private right of way with stations at Cedar Grove, Milton, Central Avenue, Valley Road and Mattapan.

The section between Ashmont and Milton Railroad Station is now under construction. The work includes the reconstruction of highway and railroad bridges and the relocation of steam railroad tracks for freight traffic.

REAL ESTATE.

During the year the Department took by eminent domain twenty-eight parcels of real estate, of which twenty-one were taken in fee and seven in easement. Settlement has been made for eighteen takings, and four parcels no longer needed for transit purposes have been sold.

In connection with the work proposals were advertised, bids received and contracts let for twenty-five different jobs.

BOYLSTON STREET SUBWAY.
The General Court passed the following:

CHAPTER 403.

AN ACT RELATIVE TO THE ELIMINATION OF THE CROSSING AT GRADE AT GOVERNOR SQUARE IN THE CITY OF BOSTON BY STREET RAILWAY CARS USING THE BOYLSTON STREET SUBWAY.

SECTION 1. Chapter three hundred and forty-one of the acts of nineteen hundred and twenty-five is hereby amended by striking out section two and inserting in place thereof the following: Section 2. The transit department of the city of Boston shall make such alterations in and extensions to the Boylston street subway as it may deem necessary for the purpose of eliminating the crossing at grade of Governor square by cars using said subway, for the improvement of street car service on Commonwealth avenue and Beacon street, for the purpose of providing means for a convenient interchange of passengers between cars or trains operated in said subway and those operated on surface lines connecting therewith and for improving the transportation facilities furnished in said subway, and to that end shall have the powers conferred upon the Boston transit commission by chapter seven hundred and forty-one of the acts of nineteen hundred and eleven and amendments thereof. One half of the cost of such alterations and extensions shall be met by bonds to be issued by the city of Boston in the same manner as bonds issued to meet the original cost of the Boylston street subway; and all rentals or other compensation received by said city under this act shall be used in the first instance for the payment of interest on said bonds and the balance shall be used for the payment of the principal of said bonds. The remaining one half of said cost shall be met by bonds to be issued by said city as provided in section four. No such work shall be done, however, unless and until a plan therefor shall be approved by the department of public utilities, and unless and until the Boston Elevated Railway Company shall execute a lease of such alterations and extensions for a term ending with that of the contract for use of said subway or, in the event that the board of directors of said company do not consent to such lease, for a term ending upon the termination of public operation of said company under chapter one hundred and fiftynine of the Special Acts of nineteen hundred and eighteen, as from time to time amended. Any plan so approved may be altered at any time by a new plan submitted and approved in like manner, except that after the execution of said lease no such alterations shall be made without the consent of said company thereto in writing. Such lease shall provide that the company shall pay to the city of Boston an annual rental at the rate of two and one fourth per cent per annum upon the net cost of such alterations and extensions. The lease shall be in the same general form as those authorized by said-chapter seven hundred and forty-one, except in so far as any other provisions may be agreed upon by said transit department and the company as specially applicable to the demised premises. The said net cost shall be determined in the manner provided in said chapter seven hundred and forty-one, and the rental shall be paid in instalments corresponding to the requirements for the payment of rental in said Boylston street subway.

The city shall have, hold and enjoy in its private or proprietary capacity, for its own property, the said alterations and extensions and all rents, tolls, income and profits from all contracts entered into by it for the use of said alterations or extensions or any part thereof, and the same shall never be taken by the commonwealth except on payment of just compensation.

Sect. 2. Said chapter three hundred and forty-one is hereby further amended by adding at the end thereof the following new section: Section 4. The treasurer of the city of Boston, without any other authority than that contained in this act shall from time to time, on request of the transit department, issue and sell at public or private sale bonds of the city to an amount sufficient to provide funds for the payment of one half of the cost of said alterations and extensions, which bonds shall be outside the statutory limit of indebtedness. Each authorized issue of bonds shall constitute a separate loan. The bonds shall be designated on their face, Governor Square Improvement Bonds, Act of 1928, shall be in such form of coupon bonds, or registered bonds without coupons, or coupon bonds exchangeable for registered bonds, as the treasurer of the city shall determine; shall be for such terms not exceeding fifty years from the dates of issue as the mayor and treasurer of the city shall determine; shall bear interest in accordance with the provisions of chapter fifty-two of the Special Acts of nineteen hundred and eighteen; and shall be payable by such annual payments as will extinguish the same at maturity and so that the first of the said annual payments on account of any loan shall be made not later than one year after the date of the bonds issued therefor, and that the amount of said payments in any year on account of such loan shall not be less than the amount of the principal of the loan payable in any subsequent year. The said annual amounts, together with the interest on the loan, shall, without further action, be assessed until the debt is extinguished. The treasurer of the city of Boston shall hold the proceeds of said bonds in the treasury of the city, and pay therefrom one half the cost of such alterations and extensions.

SECT. 3. This act shall take effect if and when it is accepted by the mayor of the city of Boston by a writing filed on or before December thirty-first of the current year with the department of public utilities.

His Honor the Mayor did not accept the act.

WASHINGTON STREET TUNNEL.

The removal of the statue of Samuel Adams from Adams Square to Dock Square made necessary the relocation of the Adams Square ventilation shaft of Washington Street Tunnel.

The Department approved a request of the Boston Elevated Railway Company for permission to establish an entrance between the Milk Station and the basement of the Old South Meeting House.

EAST BOSTON VEHICULAR TUNNEL.

Chapter 380 of the Acts of 1928 provided "For the construction of a vehicular tunnel between Boston proper and East Boston and for the creation of a tunnel district."

This act was accepted by the City Council but his Honor Mayor Malcolm E. Nichols returned the order without his approval with the following communication.

To the City Council.

Gentlemen,— I return herewith, without my approval, order passed by your honorable body accepting chapter 380 of the Acts of 1928, entitled "An Act to Provide for the Construction"

of a Vehicular Tunnel between Boston Proper and East Boston and for the Creation of a Tunnel District."

This bill provides one of the most striking examples of denial to the City of Boston to control its own affairs. It reverses the policy pursued with highly beneficial results for thirty years during which the city has constructed over \$50,000,000 worth of tunnels and subways. It takes away the rights of the city in its own streets. It provides a new system of unnecessary administration at a waste of \$50,000 a year. It institutes an unworkable system of tunnel tolls. It commits the city to the issue of debt obligations which makes unjust taxation a certainty.

The criticisms which I made of the provisions of this bill in public have never been met, even by those who advocated its acceptance. They cannot be met. The adoption of the policy set forth in the bill is wholly contrary to the principles of home rule for which this city has stood and for which it will always seek recognition.

I strongly favor the immediate building of a traffic tunnel but not upon the impossible terms offered.

Upon the opening of the Legislature I shall present a new bill, drawn to correct the serious defects to be found in the present legislation.

Respectfully yours,
Malcolm E. Nichols, Mayor.

SINKING FUNDS.

The following is the condition of the debt and of the sinking funds for the various divisions of the work of the department at the date of this report, as stated by the City Treasurer.

Brought forward	\$3,278,803 81
Paid:	
Interest on investments purchased January 1, 1928 to date \$127 50	
Premium on investments purchased Janu-	
ary 1, 1928 to date 2,519 84	
	2,647 34
	\$3,276,156 47
Charlestown Bridge, No. 1.	
(Debt, \$750,000, inside debt limit.)	
Amount of fund January 1, 1928	\$503,702 76
Received:	
Interest on bank deposits January 1, 1928 to date	
to date	
to date 18,215 00	
Appropriation for debt 3,902 00	
Revenue, etc., January 1, 1928 8,909 63	
	31,762 01
	\$535,464 77
O N. O	
Charlestown Bridge, No. 2.	
(Debt, \$665,000, outside debt limit.)	@FF0 1FC 19
Amount of fund January 1, 1928	\$579,156 13
Received: Interest on bank deposits January 1, 1928	
to date \$775 77	
Interest on investments January 1, 1928	
to date	
	23,510 77
	\$602,666 90
Paid:	,
Interest on investments purchased Janu-	
ary 1, 1928 to date	10 42
	\$602,656 48
East Boston Tunnel.	
(Debt, \$3,334,000, outside debt limit.)	
Amount of fund January 1, 1928	\$1,827,354 43
Received:	Ψ1,021,001 10
Interest on bank deposits January 1, 1928	
to date	
Interest on investments January 1, 1928	
to date 60,097 50	
Revenue, etc., January 1, 1928 to date . 5,085 00	66,057 38
Carried forward	\$ 1,893,411 81

Brought forward		\$1,893,411 81
Paid: Interest on investments purchased January 1, 1928 to date		10 42
		\$1,893,401 39
Boston Tunnel and S	SUBWAY.	
(Debt, \$8,382,700, outside of		
Amount of fund January 1, 1928 Received:		\$3,256,264 55
Interest on bank deposits January 1, 1928 to date	\$968 64	
Interest on investments January 1, 1928 to date	132,117 76	
Revenue, etc., January 1, 1928 to date .	64,680 00	
		197,766 40
Paid:		\$3,454,030 95
Interest on investments purchased January 1, 1928 to date	\$185 00	
Premium on investments purchased Janu-	0.671.00	
ary 1, 1928 to date	2,671 80	2,856 80
		\$3,451,174 15
Rapid Transit — Cambridge	Connection.	
(Debt, \$1,645,000, outside d	lebt limit.)	
Amount of fund January 1, 1928 Received:		\$356,237 88
Interest on bank deposits January 1, 1928 to date	\$337 80	
Interest on investments January 1, 1928 to date	19,555 00	
to date	15,276 00	
		35,168 80
D. 1.		\$391,406 68
Paid: Interest on investments purchased Janu-		
ary 1, 1928 to date	\$326 39	
Premium on investments purchased January 1, 1928 to date	1,123 53	
		1,449 92
		\$389,956 76

BOYLSTON STREET SUBWAY.

BOYLSTON STREET SUR	BWAY.	
(Debt, \$5,395,000, outside d	ebt limit.)	
Amount of fund January 1, 1928 Received:		\$95,923 88
Interest on bank deposits January 1, 1928	\$309 53	
to date	3,601 25	
Revenue, etc., January 1, 1928 to date .	15,984 93	19,895 71
		\$115,819 59
Paid: Interest on investments purchased January 1, 1928 to date		15 62
		\$115,803 97
East Boston Tunnel Ex	CTENSION.	
(Debt, \$2,500,000, outside d	lebt limit.)	
Amount of fund January 1, 1928 Received:		\$215,093 89
Interest on bank deposits January 1, 1928 to date	\$ 204 95	
Interest on investments January 1, 1928	0 070 50	
to date	8,878 50 5,038 01	14,121 46
Paid:		\$229,215 35
Interest on investments purchased January		
1, 1928 to date		10 42
		\$229,204 93
Dorchester Tunn	EL.	
(Debt, \$12,115,000, outside	debt limit.)	
Amount of fund January 1, 1928 Received:		\$446,735 97
Interest on bank deposits January 1, 1928 to date	\$3 91 80	
Interest on investments January 1, 1928	00.040 ##	
to date	22,348 75 71,328 47	94,069 02
Carried forward		\$540,804 99

Brought forward		\$540,804 99
Paid: Interest on investments purchased January		
1, 1928 to date	\$296 60	
Premium on investments purchased Janu-		
ary 1, 1928 to date	3,067 07	3,363 67
		\$537,441 32
East Boston Tunnel Alt	ERATIONS.	
(Debt, \$3,900,000, outside de	ebt limit.)	
Amount of fund January 1, 1928		\$56,113 27
Received:		
Interest on bank deposits January 1, 1928		_
to date	\$307 70	
Interest on investments January 1, 1928	1 051 05	
to date	1,651 25	
Revenue, etc., January 1, 1928 to date .	9,428 58	11,387 53
		
Paid:		\$67,500 80
Interest on investments purchased January		
1, 1928 to date		15 62
		\$67,485 18
		\$07, 1 00 10
Hyde Park Street Rai	LWAY.	
(Debt, \$322,000, outside deb	t limit.)	
Amount of fund January 1, 1928		\$34,546 42
Received:		
Interest on bank deposits January 1, 1928		
to date	\$345 30	
Interest on investments January 1, 1928	1 000 00	
to date	1,020 00	
to date	8,300 00	
		9,665 30
		\$44,211 72
75	1001	1 100

TREMONT STREET SUBWAY ALTERATIONS — ACTS 1924 — CHAPTER 120.

(Debt, \$50,000, outside debt limit.)

(No fund.)

East Boston Tunnel Alterations — Acts 1924 — Chapter 120. (Debt, \$20,000, outside debt limit.) (No fund.)

RENTAL BILLS RENDERED TO THE BOSTON ELEVATED RAILWAY COMPANY.

The following is a statement of the bills rendered for rental of the various tunnels and subways:

	TREM	TONT	ST	REET	Sm	BWAY.			
March 31, 1928:			~ 1.		~0.				
Net cost of subway						\$4,144,319	82		
Rental for one quart	\mathbf{er}							\$46,623	60
Alterations: net cost						242,673	93		
Rental for one quart	er	•						2,730	08
June 30, 1928:									
Net cost of subway	•	•				4,144,717	55		
Rental for one quart	er		•		•	0.40.000		46,628	07
Alterations: net cost		•	•	•	•	242,673	93	0.700	00
Rental for one quarte	er .	•	•		•			2,730	08
September 30, 1928:						4 144 717			
Net cost of subway	•	•	•	•	•	4,144,717	99	16 690	07
Rental for one quart Alterations: net cost		•	•	•	•	242 672	02	46,628	07
Rental for one quart	or.	•	•	•	•	242,673	90	2,730	06
December 31, 1928:	EI	•	•	•	•			2,750	08
Net cost of subway						4,145,004	10		
Rental for one quart	or	•	•	•		4,140,004	10	46,631	20
Alterations: net cost	CI	•	•	•	•	242,673	03	40,001	23
Rental for one quart		•	•	•	•	242,010	90	2,730	08
remai for one quare	CI	•	•	•	•			2,100	-00
						Total .		\$197,431	35
						20002 .	•	\$10.,101	
W	ASHI	NGTO	N S	TREE	тТ	UNNEL.			
March 31, 1928:	110111	11010	14 10	1111111		CIVILED.			
Net cost of tunnel						\$7,943,436	71		
Rental for one quart	er .	·		•	Ċ	\$1,010,100	• •	\$89,363	66
June 30, 1928:	.	•	•	•	•			ΨΟυ,000	00
Net cost of tunnel						7,943,461	45		
Rental for one quart	er					-,,		89,363	94
September 30, 1928:								33,333	-
Net cost of tunnel						7,943,486	14		
_ Rental for one quarte	er					,,		89,364	22
December 31, 1928:								,	
Net cost of tunnel						7,943,722	06		
Rental for one quarte	er							89,366	87
						Total .		\$357,458	69
									_
	CAM	BRID	GΕ	CONN	VEC.	TION.			
March 31, 1928:									
Net cost of connection		•				\$1,643,899	58		
Rental for one quarte	\mathbf{er}			•				\$20,035	03
June 30, 1928:									
Net cost of connection		•	٠			1,647,149	88	20.054	
Rental for one quarte	er	•	٠	•				20,074	64
September 30, 1928:						1 040 550	90		
Net cost of connectio		•	٠	•	•	1,649,776	36	20.100	0.5
Rental for one quarte	15	•	•	•	•			20,106	05
December 31, 1928: Net cost of connection	n					1 650 000	11		
Rental for one quart		•	•	•	•	1,650,836	11	20.110	50
Lentar for one quart	21.	•	•	•	•			20,119	90
						Total .		\$80,335	88
						LUCAI .	•	φου,σου	00

	Boyr	COLON	Sm	DETERM	۵.	UBWAY.	
March 31, 1928:	DOIL	BTON	ЮT.	REET	ומ	UBWAY.	
Net cost of subway						\$5,250,249 81	
Rental for one quar	ter					\$59,065 31	
June 30, 1928: Net cost of subway						E 950 940 91	
Rental for one quar	ter.	•		•	•	5,250,249 81 59,065 31	
September 30, 1928:		•	•	•	•	99,009 31	
Net cost of subway						5,250,249 81	
Rental for one quar	rter	•	•			59,065 31	
December 31, 1928: Net cost of subway						5 951 991 75	
Rental for one quar		•	•	•	•	5,251,331 75 59,077 48	
•							
						Total \$236,273 41	
Eas	зт Во	STON	Тπ	NNET.	TF.	EXTENSION.	
March 31, 1928:		01011		MILLED	_	ATEMSION.	
Net cost of extensio	n.					\$2,334,494 83	
Rental for one quar	ter	•				\$26,263 07	
June 30, 1928: Net cost of extension	n					9 994 404 99	
Rental for one quar	u. ter	•	•	•	•	2,334,494 83 26,263 07	
September 30, 1928:		•	•	•	•	20,203 07	
Net cost of extension	n.					2,334,494 83	
Rental for one quar	ter				٠	26,263 07	
December 31, 1928: Net cost of extension							
Rental for one quar	u . ter	•	•	•	٠	2,334,494 83	
		•	•	•	•	26,263 07	
						Total \$105,052 28	
•	Do	RCHE	COM TO	ь Тп	BTBI		
March 31, 1928:	100	RUHE	SIE.	K IU	NN	11212.	
Net cost of tunnel						\$12,142,077 40	
Rental for one quart	er	•		•		\$136,598 37	
June 30, 1928: Net cost of tunnel						19 149 609 79	
Rental for one quart	er	•	•	•	•	12,143,602 78 136,615 53	
September 30, 1928:	-	•	•	•	•	100,010 00	
Net cost of tunnel						12,145,309 99	
Rental for one quart	\mathbf{er}		•	•		136,634 74	
December 31, 1928: Net cost of tunnel						19 145 951 70	
Rental for one quart	er	•	•	*	•	12,145,351 79 136,635 21	
1 1	-		•	•	•	100,000 21	
						Total \$546,483 85	
	A	LING	TON	STAT	PIO	N.	
March 31, 1928:							
Net cost of station	•	•	•	•		\$1,217,425 06	
Rental for one quart June 30, 1928:	er	•	•	•	•	\$13,696 03	
Net cost of station						1,219,427 97	
Rental for one quarte	er					13,718 56	
September 30, 1928:						25,125 00	
Net cost of station		•	•	•	•	1,219,423 09	
Rental for one quarte December 31, 1928:						19 710 K1	
~ 550HD01 01, 1020.	er	•	•	•	•	13,718 51	
Net cost of station	er		•	•	•		
Net cost of station Rental for one quarte			•			1,219,426 19	
Net cost of station Rental for one quarte		:	•	:	•	1,219,426 19	
Net cost of station Rental for one quarte		:	•		•	1,219,426 19	

	Trans	Door		т			
March 31, 1928:	EAST	DOS	LOW	IUN	INEL.		
Net cost of tunnel					\$3,395,855	2 82	
Rental for one quarter	٠.						\$38,203 35
June 30, 1928: Net cost of tunnel					2 206 016	1 50	
Rental for one quarter	• •		•	•	3,396,019	9 00	38,205 22
September 30, 1928;	·	·	•	•			00,200 22
Net cost of tunnel					3,396,132	2 98	
December 31 1028	•	•	•	•			38,206 50
Rental for one quarter December 31, 1928: Net cost of tunnel					3,396,224	1 01	
Rental for one quarter			i.	:	0,000,22	. 01	38,207 52
					Total .	•	\$152,822 59
11	D.	a		ъ			
March 31, 1928:	DE PA	RK S	TREE	TR	AILWAY.		
Net cost of premises					\$231,099	45	
Rental for one quarter		•			\$252,000	10	\$2,599 87
June 30, 1928:					204 22		· ·
Net cost of premises Rental for one quarter		•	•	•	231,099	45	2 500 67
September 30, 1928:		•	•	•			2,599 87
Net cost of premises					231,099	45	
Rental for one quarter	•	•		•			2,599 87
December 31, 1928: Net cost of premises					231,099	15	
Rental for one quarter	• :		:	•	231,099	40	2,599 87
					Total .	•	\$10,399 48
F D	_	70					
March 31, 1928:	OSTON	TUN	INEL	AL.	TERATIONS.		
Net cost of alterations					\$3,773,940	19	
Rental for one quarter					**,***,***		\$42,456 83
June 30, 1928:					0.554.004		,
Net cost of alterations Rental for one quarter	•	•	•	•	3,774,004	59	40 457 55
September 30, 1928:	•	•	•	•			42,457 55
Net cost of alterations.					3,773,978	55	
Rental for one quarter December 31, 1928:	•	•	•	•			42,457 26
Net cost of alterations					3,773,975	25	
Rental for one quarter		· ·			0,110,910	20	42,457 22
					Total .	٠	\$169,828 86
Don	~~~~	D		æ			
December 31, 1928:	CHEST	ER K	APII) TE	ANSIT.		
Value of premises					\$8,000,000	00	
Rental for one quarter					,,		\$90,000 00
					TD - 4 - 3		
					Total .	٠	\$90,000 00
		Tota	A T G				
Tremont Street Subway			LLS.				\$197,431 35
Washington Street Tunnel							357,458 69
Cambridge Connection. Boylston Street Subway	•						357,458 69 80,335 88
Doyleton Street Subway	•					٠	236,273 41
Carried forward, .							\$871,499 33

$Brought\ forward$.					. \$871,499 33
					. 105,052 28 . 546,483 85
Dorchester Tunnel .					. 546,483 85
Arlington Station					. 54,851 65
Hyde Park Street Railway			•		54,851 65 152,822 59 10,399 48
Dorchester Tunnel Arlington Station East Boston Tunnel Hyde Park Street Railway East Boston Tunnel Alters Dorchester Rapid Transit	ations		•		169,828 86
Dorchester Rapid Transit	, .				90,000 00
·					
					\$2,000,938 04
~		_			
STAT	PEMENT	COF EX	PENS	SES.	
The following is a	classifi	ied stat	emer	t of th	e expenses of
the department for the	e vear	ending	Dece	mber 31	1928
	Jour	0	2000	111001 01	1, 1020.
EAS	T BOS	TON T	UNN	EL.	~
		CTION B.			
Construction Expenses:					
Labor Field Supplies		\$448	41		
Field Supplies		Cr. 10	64		
					\$437 77
BOSTON	TUNI	VEL AN	D SU	JBWAY.	
	SE	ction 2.			
Engineering Expenses:					
Skilled Service			•	\$24	74
	SE	ction 4.			
Engineering Expenses:					
Skilled Service			•	57	54
	SE	ction 5.			
Engineering Expenses: Skilled Service .	0.40.07				
Stationery — Supplies C	\$48 87 a 1 40				
Stationery—Supplies C	7.1 40	\$47	47		
Construction Expenses:		Ψ			
Construction . Cr.	\$23 15				
Labor Cr.	323 17				
		346	32		0.5
				Cr. 298	85
n : n	SE	ction 8.			
Engineering Expenses: Skilled Service Construction Expenses: Construction Labor		200	0.4		
Construction Exponent:		\$20	84		
Construction	\$33.86				
Labor	584 80				
		618	66		
				639	
					<u>\$422 93</u>
CAN	MBRID	GE CON	NEC	CTION.	
Engineering Expenses:	SE	ction 1.			
Skilled Service				\$3	36
	Q.	omross 9			
Construction Expenses:	SE	CTION 2.			
Construction Expenses: Escalators				7.716	19
					\$7,719 55

\$7,719 55

	Dor		STER TUNCTION D.	NNEL.			
Engineering Expenses: Skilled Service Construction Expenses: Escalators			\$19 2,322		\$2,342	65	
Construction Expenses:		SEC	CTION F.				•
Escalators Labor		:	\$425 340 —	78 06	765	84	
		Sec	ction J.				
Engineering Expenses: Skilled Service . Stationery — Supplies	\$33 4	37 80	\$38	17			
Construction Expenses: Construction Escalators	\$32 1,658 5 1,547	70 15 85 79					
10018			3,259	78	3,297	95	
		SEC	TION K.				
Engineering Expenses: Skilled Service Stationery—Supplies	\$276 1	37 65	\$278	02			
Construction Expenses: Interest . \$24 Labor	1,055 10	55 00					
Construction . Cr	1,065 . 281 	55 80	23,783	75	24,061	77	
						_	\$30,468 21
ВОУ	LST	ON	STREE	T SU	BWAY.		
Engineering Expenses: Skilled Service					\$38	84	
Engineering Expenses: Skilled Service Stationery — Supplies			\$1,473	08			
Stationery — Supplies		٠		00	1,488	08	
Engineering Expenses: Skilled Service		SEC	TION 5.		10	54	
						_	\$1,537 46

ARLINGTON STATION.

	ARLIN	MAL	JN SIA	TIOI	N.		
Construction Expenses	2*						
T - L	·		#1 070	C A			
Labor		•	\$1,872				
Tools			22	65			
			\$1,895	20			
a			Ф1,090	29			
Construction .			Cr. 43	30			
					\$1,851	99	
Extension:					\$2,002	•	
Stationery — Suppli	es .				1	39	
							\$1,853 38
							\$2,000 00
TO A COTT. TO	OCHON	(TIT)	TETTETA	A T (T)	DD AMYO	ATC!	
EAST B	OSTON	10	NNEL A	ALIT	ERATIO	No.	
0 1 1: 13							
Construction Expenses	s:						
Construction .			\$3	72		_	
Tahan		•	32	00			
Labor		•					
Paving			27	00			
					\$62	79	
			~		Φ02	12	
Field Supplies .			Cr. \$18	90			
Tools			Cr. 1	20			
10015		•	07. 1	20		10	
					20	10	
							\$42 62
							\$12 O2
HAD	E DAR	TZ S	STREET	PΛ	TIWAV		
ши	E IAN	N ZIL	TITELL	11/1	ILWAI.		
Construction Expenses	g.						
						0	
Property Damages -	- rakin	igs		•		. 0	r. \$3,950 00
						-	
TREMONT STRE	ET SU	BWA	Y ALTI	ERAT	rions —	- AC	TS 1924.
TREMONT STRE	ET SŲ	BWA	Y ALTH	ERA	rions –	- AC	TS 1924.
				ERA	rions –	- AC	TS 1924.
Cambridge and Court	Streets			ERA	rions –	- AC	TS 1924.
Cambridge and Court	Streets			ERAT	rions –	- AC	TS 1924.
Cambridge and Court Scollay Station Cha	Streets anges:			ERAT	rions —	- AC	TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses:	Streets nges:	Wide		ERA'	rions —	- AC	TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses Skilled Service	Streets anges:	Wide		ERA'	rions —	- AC	TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses Skilled Service	Streets nges:	Wide		ERAT	rions —	- AC	TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses Skilled Service Stationery—Sup-	Streets nges:	Wide 96		ERAT	rions —	- AC	TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses Skilled Service	Streets nges:	Wide	ming:		rions —	- AC	TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses Skilled Service Stationery—Sup-	Streets nges:	Wide 96	ming:		rions —	- AC	TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses Skilled Service . Stationery — Sup- plies	Streets inges: \$28	Wide 96			ΓIONS —	- AC	TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses Skilled Service Stationery—Supplies Construction Expense	Streets nges: : \$28	Wide 96 72	ming:		ΓIONS —	- AC	TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses Skilled Service Stationery—Supplies Construction Expense	Streets nges: : \$28 1 s: \$1,139	96 72 —	ming:		rions —	- AC	TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service . Stationery — Supplies . Construction Expenses Construction .	Streets nges: : \$28 1 s: \$1,139	96 72 —	ming:		rions —	- AC	TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery — Supplies Construction Expenses Construction Field Supplies	Streets nges: : \$28 1 s: \$1,139	96 72 —	ming:		rions —	- AC	TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery — Supplies Construction Expenses Construction Field Supplies	Streets nges: : \$28 1 s: \$1,139	96 72 —	ming:		rions —	- AC	TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery—Supplies Construction Expenses Construction Field Supplies Labor	Streets	96 72 22 31 02	ming:		rions —	- AC	TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery — Supplies Construction Expenses Construction Field Supplies	Streets	96 72 —	ning: \$30	68	rions —	- AC	TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery—Supplies Construction Expenses Construction Field Supplies Labor	Streets	96 72 22 31 02	ming:	68			TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery—Supplies Construction Expenses Construction Field Supplies Labor	Streets	96 72 22 31 02	ning: \$30	68			TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery—Supplies Construction Expenses Construction Field Supplies Labor Tools	Streets	96 72 22 31 02	ning: \$30	68	FIONS —		TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery—Supplies Construction Expenses Construction Expenses Construction Field Supplies Labor Tools Park Street Station:	Streets singles: \$28 \$1 \$: \$1,139 50 7	96 72 22 31 02	ning: \$30	68			TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery—Supplies Construction Expenses Construction Expenses Construction Field Supplies Labor Tools Park Street Station:	Streets singles: \$28 \$1 \$: \$1,139 50 7	96 72 22 31 02	ning: \$30	68			TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery—Supplies Construction Expenses Construction Field Supplies Labor Tools Park Street Station: Changing Columns:	Streets singles: \$28 1	96 72 22 31 02	ning: \$30	68			TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery—Supplies Construction Expenses Construction Field Supplies Labor Tools Park Street Station: Changing Columns: Engineering Expenses	Streets	96 72 22 31 02 44	ning: \$30	68			TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery—Supplies Construction Expenses Construction Field Supplies Labor Tools Park Street Station: Changing Columns: Engineering Expenses	Streets	96 72 22 31 02 44	ning: \$30	68			TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery—Supplies Construction Expenses Construction Field Supplies Labor Tools Park Street Station: Changing Columns: Engineering Expenses Skilled Service	Streets	96 72 22 31 02 44	ning: \$30	68			TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery — Supplies Construction Expenses: Construction . Field Supplies Labor Tools Park Street Station: Changing Columns: Engineering Expenses Skilled Service Stationery — Sup-	Streets	96 72	ning: \$30	68			TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery — Supplies Construction Expenses: Construction . Field Supplies Labor Tools Park Street Station: Changing Columns: Engineering Expenses Skilled Service Stationery — Sup-	Streets	96 72 22 31 02 44	ning: \$30	68			TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery—Supplies Construction Expenses Construction Field Supplies Labor Tools Park Street Station: Changing Columns: Engineering Expenses Skilled Service	Streets	96 72	\$30 1,215	68			TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery—Supplies Construction Expenses: Construction Expenses: Construction Field Supplies Labor Tools Park Street Station: Changing Columns: Engineering Expenses: Skilled Service Stationery—Supplies	Streets nges: : \$28	96 72	ning: \$30	68			TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery—Supplies Construction Expenses Construction Field Supplies Labor Tools Park Street Station: Changing Columns: Engineering Expenses Skilled Service Stationery—Supplies Construction Expense	Streets singles: \$28 \[\frac{1}{\\$28} \] \$1,139 \[\frac{50}{7} \] \$\tag{5} \] \$\tag{2} \] \$\tag{2} \] \$\tag{2} \] \$\tag{2} \] \$\tag{2} \] \$\tag{2} \]	96 72 22 31 02 44 97	\$30 1,215	68			TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery—Supplies Construction Expenses Construction Field Supplies Labor Tools Park Street Station: Changing Columns: Engineering Expenses Skilled Service Stationery—Supplies Construction Expense	Streets singles: \$28 \[\frac{1}{\\$28} \] \$1,139 \[\frac{50}{7} \] \$\tag{5} \] \$\tag{2} \] \$\tag{2} \] \$\tag{2} \] \$\tag{2} \] \$\tag{2} \] \$\tag{2} \]	96 72 22 31 02 44 97	\$30 1,215	68			TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery—Supplies Construction Expenses Construction Field Supplies Labor Tools Park Street Station: Changing Columns: Engineering Expenses Skilled Service Stationery—Supplies Construction Expense	Streets singles: \$28 \[\frac{1}{\\$28} \] \$1,139 \[\frac{50}{7} \] \$\tag{5} \] \$\tag{2} \] \$\tag{2} \] \$\tag{2} \] \$\tag{2} \] \$\tag{2} \] \$\tag{2} \]	96 72 22 31 02 44 97	\$30 1,215	68			TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery—Supplies Construction Expenses Construction Field Supplies Labor Tools Park Street Station: Changing Columns: Engineering Expenses Skilled Service Stationery—Supplies Construction Expense	Streets singles: \$28 \[\frac{1}{\\$28} \] \$1,139 \[\frac{50}{7} \] \$\tag{5} \] \$\tag{2} \] \$\tag{2} \] \$\tag{2} \] \$\tag{2} \] \$\tag{2} \] \$\tag{2} \]	96 72 22 31 02 44 97	\$30 1,215	68			TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery—Supplies Construction Expenses Construction Field Supplies Labor Tools Park Street Station: Changing Columns: Engineering Expenses Skilled Service Stationery—Supplies Construction Expense	Streets singles: \$28 \[\frac{1}{\\$28} \] \$1,139 \[\frac{50}{7} \] \$\tag{5} \] \$\tag{2} \] \$\tag{2} \] \$\tag{2} \] \$\tag{2} \] \$\tag{2} \] \$\tag{2} \]	96 72 22 31 02 44 97	\$30 1,215	68			TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery—Supplies Construction Expenses: Construction Expenses: Construction Field Supplies Labor Tools Park Street Station: Changing Columns: Engineering Expenses: Skilled Service Stationery—Supplies	Streets singles: \$28 \[\frac{1}{\\$28} \] \$1,139 \[\frac{50}{7} \] \$\tag{5} \] \$\tag{2} \] \$\tag{2} \] \$\tag{2} \] \$\tag{2} \] \$\tag{2} \] \$\tag{2} \]	96 72 22 31 02 44 97	\$30 1,215 \$2,375	99 37			TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery—Supplies Construction Expenses Construction Field Supplies Labor Tools Park Street Station: Changing Columns: Engineering Expenses Skilled Service Stationery—Supplies Construction Expense	Streets singles: \$28 \[\frac{1}{\\$28} \] \$1,139 \[\frac{50}{7} \] \$\tag{5} \] \$\tag{2} \$\text{s:} \$\\$2,372	96 72 22 31 02 44 97	\$30 1,215	99 37	\$1,246	67	TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery—Supplies Construction Expenses Construction Field Supplies Labor Tools Park Street Station: Changing Columns: Engineering Expenses Skilled Service Stationery—Supplies Construction Expense	Streets singles: \$28 \[\frac{1}{\\$28} \] \$1,139 \[\frac{50}{7} \] \$\tag{5} \] \$\tag{2} \$\text{s:} \$\\$2,372	96 72 22 31 02 44 97	\$30 1,215 \$2,375	99 37		67	TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery — Supplies Construction Expenses: Construction Expenses: Labor Tools Park Street Station: Changing Columns: Engineering Expenses: Skilled Service Stationery — Supplies Construction Expenses Construction Expenses Construction Expenses Construction Expenses Construction Labor Lighting	Streets	96 72 22 31 02 44 97	\$30 1,215 \$2,375	99 37	\$1,246	67	TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery — Supplies Construction Expenses: Construction Expenses: Construction Field Supplies Labor Tools Park Street Station: Changing Columns: Engineering Expenses Skilled Service Stationery — Supplies Construction Expense Construction Labor Labor Lighting Hanover Street Entra	Streets	96 72 22 31 02 44 97	\$30 1,215 \$2,375	99 37	\$1,246	67	TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery — Supplies Construction Expenses: Construction Expenses: Labor Tools Park Street Station: Changing Columns: Engineering Expenses: Skilled Service Stationery — Supplies Construction Expenses Construction Expenses Construction Expenses Construction Expenses Construction Labor Lighting	Streets	96 72 22 31 02 44 97	\$30 1,215 \$2,375	99 37	\$1,246	67	TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery — Supplies Construction Expenses: Construction Expenses: Construction . Field Supplies . Labor . Tools . Park Street Station: Changing Columns: Engineering Expenses: Skilled Service . Stationery — Supplies . Construction Expense: Construction . Labor . Lighting . Hanover Street Entra Construction Expense	Streets	96 72 22 31 02 44 97	\$30 1,215 \$2,375	99 37	\$1,246 2,877	97	TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery — Supplies Construction Expenses: Construction Expenses: Construction Field Supplies Labor Tools Park Street Station: Changing Columns: Engineering Expenses Skilled Service Stationery — Supplies Construction Expense Construction Labor Labor Lighting Hanover Street Entra	Streets	96 72 22 31 02 44 97	\$30 1,215 \$2,375	99 37	\$1,246	97	
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery — Supplies Construction Expenses: Construction Expenses: Construction . Field Supplies . Labor . Tools . Park Street Station: Changing Columns: Engineering Expenses: Skilled Service . Stationery — Supplies . Construction Expense: Construction . Labor . Lighting . Hanover Street Entra Construction Expense	Streets	96 72 22 31 02 44 97	\$30 1,215 \$2,375	99 37	\$1,246 2,877	97	TS 1924.
Cambridge and Court Scollay Station Cha Engineering Expenses: Skilled Service Stationery — Supplies Construction Expenses: Construction Expenses: Construction . Field Supplies . Labor . Tools . Park Street Station: Changing Columns: Engineering Expenses: Skilled Service . Stationery — Supplies . Construction Expense: Construction . Labor . Lighting . Hanover Street Entra Construction Expense	Streets	96 72 22 31 02 44 97	\$30 1,215 \$2,375	99 37	\$1,246 2,877	97	

EAST BOSTON	TUNNEL	ALTE	RATI	ions —	ACTS	1924.
Cambridge and Court S Scollay Station Chan Engineering Expenses:	streets Wid ges:					
Stationery — Supplie Construction Expenses:	s	\$14	27			
Stationery — Supplie Construction Expenses: Construction . Field Supplies . Labor Tools	9 79 39 62					
10018	4 90	785	66			
Scollay Station Change	a.			\$799	93	
Escalators			٠		29	\$819 22
CAMBRIDGE	AND COL	TRT ST	REE	TS WII	ENIN	G.
Bills paid by Street Lay		•				. \$163 82
					-	
	CHESTER	RAPID	TR	ANSIT.		
Office: Clerks		\$5,800	80			
Commissioners		17,500	00			
Furniture	: :	35	90			
Lighting		574	82			
Office Boy		596	00			
Printing		269	10			
Rental Stationery — Supplie		7,854	15			
Stationery — Supplie	s					
Stenographer — Conv	eyancer	2,991	56			
Stationery — Supplie Stenographer — Conv Telephone — Telegra	ph	$2\ 394$	57			
Interest		\$38,627 325,769	16			
		020,100		\$364,397	15	
Engineering Expenses:						
Chief Engineer		\$9,000	00			
Clerks Furniture		4,806	49			
Furniture		12	25			
Instruments Lighting Printing		26				
Lighting		600				
Printing		186	35			
		2,310				
Rental		8,608	35			
Repairs		32	78			
Stationery — Supplier		4,945				
Stationery — Supplies Stenographer		2,152 2,561	00 97			
Telephone — Telegra	oh · ·	847	25			
zorophone zorograf				36,090	21	
Miscellaneous Expenses:				55,555		
Autos		\$1,565	04			
Equipment — Inspect	ion .	155	86			
Labor		298,776	52			
Materia	al	187,478	61			
Service		3,060				
${\it Carried\ forward}$.		\$491,036	96 \$	\$400,487	36	

Brought forward		. \$491,036 96	\$400,487 36
Labor Rental — Yard .	: :	3,962 50	
		£404 000 46	
Acquisition Shawn	ut Branch	\$494,999 46 . Cr. 2,581 19	
			492,418 27
,		SECTION 1.	
M. F. Gaddis (Con			
Stations:			
Columbia Savin	\$967 8		
Savin	Cr. 4,334 2	— Cr. 3,366 37	
Field Offices:		,	
Crescent Ave	\$9 1	.4	
Savin	42 9	- 52 13	
Bridges:		02 10	
Columbia Station	#01 47F 0		
Overpass . Freeport Under .	\$21,475 9 72 2		
- respect of act.		21,548 14	
		@2C 00C 02	
Miscellaneous Expen	ses:	\$36,996 23	
Clerks	\$120 4	8	
Construction .	2,271 4		
Field Supplies . Fuel	$\begin{array}{c} 31 \ 2 \\ 203 \ 7 \end{array}$	0	
Inspection	790 5		
Instruments .	9 8		
Labor Lighting	422 8 19 4		
Main Line Track	10 1	J	
Changes	7,803 4	9	
Professional Ad- vice	369 8	5	
Property Damages — Takings	900 0	U	
ages — Takings	28,630 4	7	
Skilled Service . Stationery — Sup-	13,550 2	5	
plies	46 6	4	
	@F4.070.00	_	
Paving	\$54,270 2° Cr. 904 4°	0	
		53,365 78	
			90,362 01
	S	SECTION 2.	
A. G. Tomasello &	Son, Inc.		
(Contract 804) Stations:		. \$17,563, 32	
Fields Corner .	\$25,234 8'	7	
Fields Corner —			
Enclosed Area,	437,722 59	9	
Harrison Sq. Sub- station	2,011 35	2	
		- 464,968 78	
Field Office: Fields Corner .			
ricius Corner .	• •	531 07	
Carried forward		\$483,063 17	\$983,267 64

Brought forward			\$483,063 17	\$983,267	64
Bridges:	@000	1 -			
Geneva Avenue . Geneva Avenue —	\$236	15			
Relocation					
Abutment .	60,921	92			
	<u> </u>	_	61,158 07		
Miscellaneous Expens	ses:				
Clerks	\$696				
Construction .	4,210	67			
Inspection	20 32				
Instruments . Labor	2,010				
Lighting	19	49			
Paving	61				
Professional Ad-	004				
vice Skilled Service .	994 $4,164$				
Stationery — Sup-	4,104	90			
plies	310	12			
Stenographers .	92	00			
	010.010				
Field Supplies	\$12,610 Cr. 22	93			
Field Supplies . Property Dam-					
Property Dam- ages — Takings C	r. 19,137	48			
Tools	Cr.	67			
			Cr. 6,550 17	F97 671	07
				537,671	07
		g_	0		
C & D Construction	C (C		ction 3.		
C. & R. Construction tract 805)	Co. (Co				
tract 805) .	Co. (Co		\$51,472 55		
tract 805) . Station:	. Co. (Co		\$51,472 55		
tract 805) . Station: Shawmut	Co. (Co				
tract 805) Station: Shawmut Field Office:	. Co. (Co		\$51,472 55 46,434 32		
tract 805) Station: Shawmut Field Office: Shawmut			\$51,472 55		
tract 805) Station: Shawmut Field Office: Shawmut Miscellaneous Expens Advertising	es:		\$51,472 55 46,434 32		
tract 805) Station: Shawmut Field Office: Shawmut Miscellaneous Expens Advertising Autos	es: \$15 \\ 2 \\ 2	75 20	\$51,472 55 46,434 32		
tract 805) Station: Shawmut Field Office: Shawmut Miscellaneous Expens Advertising Autos Clerks	es: \$15 / 739 5	75 20 34	\$51,472 55 46,434 32		
tract 805) Station: Shawmut Field Office: Shawmut Miscellaneous Expens Advertising Autos Clerks Construction	es: \$15 / 2 / 739 / 15,418	75 20 34 16	\$51,472 55 46,434 32		
tract 805) Station: Shawmut Field Office: Shawmut Miscellaneous Expens Advertising Autos Clerks Construction Field Supplies	es: \$15 / 2 / 739 15,418 / 305 (75 20 34 16 61	\$51,472 55 46,434 32		
tract 805) Station: Shawmut Field Office: Shawmut Miscellaneous Expens Advertising Autos Clerks Construction Field Supplies Labor Lighting	es: \$15,739; 15,418; 305; 15,015;	75 220 34 116 61 226 49	\$51,472 55 46,434 32		
tract 805) Station: Shawmut Field Office: Shawmut Miscellaneous Expens Advertising Autos Clerks Construction Field Supplies Labor Lighting Paving	es: \$15 / 2 / 739 / 15,418 / 305 / 15,015 /	75 220 34 116 61 226 49	\$51,472 55 46,434 32		
tract 805) Station: Shawmut Field Office: Shawmut Miscellaneous Expens Advertising Autos Clerks Construction Field Supplies Labor Lighting Paving Professional Ad-	es: \$15 / 2 / 2 / 739 / 15,418 / 305 / 6 / 15,015 / 24 / 4	75 20 34 16 61 226 49	\$51,472 55 46,434 32		
tract 805) Station: Shawmut Field Office: Shawmut Miscellaneous Expens Advertising Autos Clerks Construction Field Supplies Labor Lighting Paving Professional Advice	es: \$15,739; 15,418; 305; 15,015;	75 20 34 16 61 226 49	\$51,472 55 46,434 32		
tract 805) Station: Shawmut Field Office: Shawmut Miscellaneous Expens Advertising Autos Clerks Construction Field Supplies Labor Lighting Paving Professional Advice Property Damages—Takings	es: \$15 / 2 / 2 / 739 / 15,418 / 305 / 6 / 15,015 / 24 / 4	75 20 34 116 61 226 49 40	\$51,472 55 46,434 32		
tract 805) Station: Shawmut Field Office: Shawmut Miscellaneous Expens Advertising Autos Clerks Construction Field Supplies Labor Lighting Paving Professional Advice Property Damages—Takings Skilled Service	es: \$15,739; 15,418; 305; 15,015; 19; 24; 347;	75 20 34 116 61 226 49 40 35	\$51,472 55 46,434 32		
tract 805) Station: Shawmut Field Office: Shawmut Miscellaneous Expens Advertising Autos Clerks Construction Field Supplies Labor Lighting Paving Professional Advice Property Damages—Takings Skilled Service Stationery—Sup-	es: \$15 / 2 / 739 : 15,418 : 305 (15,015 : 19	75 20 34 116 61 226 440 335	\$51,472 55 46,434 32		
tract 805) Station: Shawmut Field Office: Shawmut Miscellaneous Expens Advertising Autos Clerks Construction Field Supplies Labor Lighting Paving Professional Advice Property Damages — Takings Skilled Service Stationery — Supplies	es: \$15 / 739 : 15,418 : 305 : 15,015 : 19 : 24 : 347 : 184 : 4,256 : 132 :	75 20 34 116 61 226 449 40 35	\$51,472 55 46,434 32		
tract 805) Station: Shawmut Field Office: Shawmut Miscellaneous Expens Advertising Autos Clerks Construction Field Supplies Labor Lighting Paving Professional Advice Property Damages — Takings Skilled Service Stationery — Supplies Stenographers	es: \$15,739; 15,418; 305; 15,015; 19; 24; 347; 4,256; 132; 398;	75 20 34 116 61 226 49 40 35 00 08 76 27	\$51,472 55 46,434 32		
tract 805) Station: Shawmut Field Office: Shawmut Miscellaneous Expens Advertising Autos Clerks Construction Field Supplies Labor Lighting Paving Professional Advice Property Damages—Takings Skilled Service Stationery—Supplies Stationery—Supplies Stenographers Teaming Tools	es: \$15,418 305,615,015 19,42 347 347 184 (4,256) 132,398 475,4225	75 20 34 116 61 226 49 40 35 00 08 76 27	\$51,472 55 46,434 32		
tract 805) Station: Shawmut Field Office: Shawmut Miscellaneous Expens Advertising Autos Clerks Construction Field Supplies Labor Lighting Paving Professional Advice Property Damages—Takings Skilled Service Stationery—Supplies Stenographers Teaming	es: \$15 / 2 / 739 15,418 305 / 6 15,015 2 / 4 4 4,256 (4,256) (4,256	75 20 34 16 61 226 440 35 00 08 76 27 48	\$51,472 55 46,434 32 2 47		
tract 805) Station: Shawmut Field Office: Shawmut Miscellaneous Expens Advertising Autos Clerks Construction Field Supplies Labor Lighting Paving Professional Advice Property Damages—Takings Skilled Service Stationery—Supplies Stationery—Supplies Stenographers Teaming Tools	es: \$15,418 305,615,015 19,42 347 347 184 (4,256) 132,398 475,4225	75 20 34 16 61 226 440 35 76 27 48 76	\$51,472 55 46,434 32	199 701	ຈາ
tract 805) Station: Shawmut Field Office: Shawmut Miscellaneous Expens Advertising Autos Clerks Construction Field Supplies Labor Lighting Paving Professional Advice Property Damages—Takings Skilled Service Stationery—Supplies Stationery—Supplies Stenographers Teaming Tools	es: \$15,418 305,615,015 19,42 347 347 184 (4,256) 132,398 475,4225	75 20 34 16 61 226 440 35 76 27 48 76	\$51,472 55 46,434 32 2 47	138,791	83

$Brought\ forward$					\$1,659,730 54
		SE	ection 4		
C. &. R. Construction tract 872)	on Co. (Co		\$252,76		
Stations and Building		59			
Ashmont Sub- Station	111,633				
Ashmont Signal Tower	30,796				
Yardmen's Build- ing	18,659				
8 • • •		_	405,11	5 67	
Field Office:				0 ָ 86	
Bridge:	• •	•	20	0,00	-
Beale Street Passa Miscellaneous Expens		•	8,79	6 92	
Advertising .	\$138				
Autos	1,718	49			
Clerks	2,239	40			
Construction .	58,450	95			
Equipment— Service	45	50			
Field Supplies .	4,815	7 3			
Fuel	428	33			
Inspection	133	01			
Instruments .	130				
Labor	63,003				
Lighting	1,269				
Paving Printing	1,888 669				
Professional Ad-	009	10			
vice	200	00			
Property Dam-					
ages — Takings	23,914				
Skilled Service .	28,230	47	•		
Stationery — Sup-	010	40			
plies Steel — Labor	618				
Steel — Labor . Steel — Material,	1,807 9 102 9	9 4 02			
Teaming	166	25			
Telephone — Tel-					
egraph	28				
Tools	6,710	09			
Water pipes .	1,807	19	100 51	7 10	
		_	198,51	13	OGE AED EA
					865,453 54
	5	SEC	TION 5A		
M. F. Gaddis (Cont.			\$99,573		
Bridges:			<i>\$00,010</i>	, 00	
Crest Ave .	\$7,698	58			
Milton	15,384	91			
Shawmut Junc-					
tion — Under-	0.40-				
pass	6,487	51	00 ==	. 10	
		_	29,57	1 10	
$Carried\ forward$			\$129,145	03	\$2,525,184 08

Passaht famousand		@1	20 145	03	@0 505 i	121	08
Brought forward Miscellaneous Expenses:	. ,	Φ1.	29,140	UĐ	\$2,525,1	104	08
Advertising .	\$203	13					
Autos	237	47					
Clerks	907	38					
Construction .	34,053	85					
Equipment—	200	٥,٢					
Inspection .	339						
Field Supplies .	$978 \\ 213$						
Fuel Inspection	1,476	50 50					
Instruments .	1,410						
Labor	14,118						
Lighting	115						
Printing	412	66					
Professional Ad-							
vice	2,875	00					
Property Dam-							
ages — Tak-	10 307	12					
Ings Skilled Service .	10,397 33,491	63					
Stationery —	00,101	00					
Supplies	1,348	05					
Steel — Labor . Steel — Material,	296	22					
Steel — Material,	11.044	44					
Track Changes .	2,316 989	50					
Tools	173						
Water Pipes .		90	116,0	06.70	6		
			110,0			151	70
					- 245,	TOT	10
					- 245,.	191	19
		Sec	rion 5	В.	~ 245,.	191	10
Station:		Sec				191	• •
Milton		Sec.		В. 47-20		191	10
Milton Field Office:		Sec:	\$4	47 20	6	191	
Milton Field Office: Milton		Sec	\$4		6	191	
Milton Field Office: Milton Bridges:	 		\$4	47 20	6	191	
Milton Field Office: Milton Bridges: Adams Street .		34	\$4	47 20	6	191	
Milton Field Office: Milton Bridges:	 	34	\$4- 53	47 20 37 40	6	191	
Milton Field Office: Milton Bridges: Adams Street Pine Tree Brook, Miscellaneous Ex-		34	\$4- 53	47 20	6	191	
Milton Field Office: Milton Bridges: Adams Street Pine Tree Brook, Miscellaneous Expenses:	\$2,671 465	34 25	\$4- 53	47 20 37 40	6	191	
Milton Field Office: Milton Bridges: Adams Street Pine Tree Brook, Miscellaneous Penses: Labor	\$2,671 465 	34 25 —	\$4- 53	47 20 37 40	6	191	
Milton Field Office: Milton Bridges: Adams Street Pine Tree Brook, Miscellaneous Expenses:	\$2,671 465	34 25 —	\$4. 53 3,13	47 20 37 40 36 59	6)	191	
Milton Field Office: Milton Bridges: Adams Street Pine Tree Brook, Miscellaneous Penses: Labor	\$2,671 465 	34 25 —	\$4. 53 3,13	47 20 37 40	66)		
Milton Field Office: Milton Bridges: Adams Street Pine Tree Brook, Miscellaneous Penses: Labor	\$2,671 465 	34 25 —	\$4. 53 3,13	47 20 37 40 36 59	66)	524	
Milton Field Office: Milton Bridges: Adams Street Pine Tree Brook, Miscellaneous Penses: Labor	\$2,671 465 	34 25 — 99 51	\$4. 53 3,13	47 26 37 46 36 59	66)		
Milton Field Office: Milton Bridges: Adams Street Pine Tree Brook, Miscellaneous Penses: Labor	\$2,671 465 \$341 5,161	34 25 — 99 51 —	\$4. 5. 3,13.	47 26 37 46 36 59	66)		
Milton Field Office: Milton Bridges: Adams Street Pine Tree Brook, Miscellaneous Expenses: Labor Skilled Service Stations: Mattapan	\$2,671 465 \$341 5,161		\$4. 5. 3,13.	47 26 37 46 36 59	66)		
Milton Field Office: Milton Bridges: Adams Street Pine Tree Brook, Miscellaneous Penses: Labor Skilled Service Stations:	\$2,671 465 \$341 5,161		\$4. 53,13 5,50 EION 50	47 20 37 40 86 59 33 50	6 0 0 - 9,6		
Milton Field Office: Milton Bridges: Adams Street Pine Tree Brook, Miscellaneous Expenses: Labor Skilled Service Stations: Mattapan Valley Road	\$2,671 465 \$341 5,161		\$4. 53,13 5,50 EION 50	47 26 37 46 36 59	6 0 0 - 9,6		
Milton	\$2,671 465 \$341 5,161		\$4. 53,13 3,13 5,56 EION 56	47 20 37 40 86 59 C.	6 0 0 0 - 9,6		
Milton Field Office: Milton Bridges: Adams Street Pine Tree Brook, Miscellaneous Expenses: Labor Skilled Service Stations: Mattapan Valley Road Bridge: Mattapan	\$2,671 465 \$341 5,161		\$4. 53,13 3,13 5,56 EION 56	47 20 37 40 86 59 33 50	6 0 0 0 - 9,6		
Milton Field Office: Milton Bridges: Adams Street Pine Tree Brook, Miscellaneous Expenses: Labor Skilled Service Stations: Mattapan Valley Road Bridge: Mattapan Miscellaneous Ex-	\$2,671 465 \$341 5,161		\$4. 53,13 3,13 5,56 EION 56	47 20 37 40 86 59 C.	6 0 0 0 - 9,6		
Milton Field Office: Milton Sridges: Adams Street Pine Tree Brook, Miscellaneous Expenses: Labor Skilled Service Stations: Mattapan Valley Road Bridge: Mattapan Miscellaneous Expenses: Labor Labor	\$2,671 465 \$341 5,161 \$102 24	34 25 — 99 51 — SECT	\$4. 53,13 3,13 5,56 EION 56	47 20 37 40 86 59 C.	6 0 0 0 - 9,6		
Milton Field Office: Milton Bridges: Adams Street Pine Tree Brook, Miscellaneous Expenses: Labor Skilled Service Stations: Mattapan Valley Road Bridge: Mattapan Miscellaneous Expenses:	\$2,671 465 \$341 5,161 \$102 (34 25 — 99 51 — SECT	\$4. 5,56 2,56 \$12 2,20	47 20 337 40 866 59 CC.	6 0 0 0 - 9,6		
Milton Field Office: Milton Sridges: Adams Street Pine Tree Brook, Miscellaneous Expenses: Labor Skilled Service Stations: Mattapan Valley Road Bridge: Mattapan Miscellaneous Expenses: Labor Labor	\$2,671 465 \$341 5,161 \$102 24	34 25 — 99 51 — SECT	\$4. 5,56 2,56 \$12 2,20	47 20 37 40 86 59 C.	6 0 0 - 9,6	324 1	75
Milton Field Office: Milton Sridges: Adams Street Pine Tree Brook, Miscellaneous Expenses: Labor Skilled Service Stations: Mattapan Valley Road Bridge: Mattapan Miscellaneous Expenses: Labor Labor	\$2,671 465 \$341 5,161 \$102 24	34 25 — 99 51 — SECT	\$4. 5,56 2,56 \$12 2,20	47 20 337 40 866 59 CC.	6 0 0 - 9,6		75

Increase:				
East Boston Tunnel			\$437	
Boston Tunnel and Subv	vay .		422	93
Cambridge Connection Dorchester Tunnel .			7,719	55
Dorchester Tunnel .			30,468	
Boylston Street Subway			1,537	46
Arlington Station .			1,853	
East Boston Tunnel Alte Hyde Park Street Railwa	ranons .		Cr. 3,950	
Tremont Street Subway		_ Acts		00
1924	2110014010115	11003	4,145	18 '
East Boston Tunnel	Alterations -	- Acts		
1924			819	22
Dorchester Rapid Transi	t		2,785,497	59
Cambridge and Court St	reets Wideni	ng .	Cr. 163	82
				\$2,828,830 09
	_			
	Summar			
	From beginni	ng	Jan. 1, 1928	3,
	of work to Dec. 31, 192	27.	Dec. 31, 192	Total.
Subway — Subway Com-	200, 02, 202	•••	200.01, 102	
mission	\$14,131	16		\$14,131 16
Part of General Expenses,	117,550			117,550 71
Engineering and miscel-	111,000	• •		111,000 11
laneous	407,475	48		407,475 48
Section One	239,407			239,407 12
Two	363,605			363,605 50
Three	300,639			300,639 36
Three and one-				
$_$ half \cdot .	9,355	70		9,355 70
Four	472,147 387,411	31		472,147 31 387,411 49
Five	387,411	49		387,411 49
Six	327,541	86		327,541 86 231,504 27
Seven	231,504	27 00		231,504 27
Eight	95,902	06		95,902 06
Eight and one- half	76,639	17		76,639 47
half Nine	299,452			299,452 07
Ten	254 497	88		254 497 88
Eleven	254,497 270,310	57		254,497 88 270,310 57
Interest	258,575	60		258,575 60
	\$4,126,147	61		\$4,126,147 61
Transfer to Alterations,				
see 11th report	4	95		4 95
				01.100.110.00
	\$4,126,142	<u>66</u>		\$4,126,142 66
Alterations Dont of Co-				
Alterations — Part of General Expenses	\$28,945	53		\$28,945 53
Section Three	2,568	26		2,568 26
Four	163	42		163 42
Five	30,233			30,233 01
Seven	178,516			178,516 16
Nine	3 (00		3 00
Ten	534			534 04
Interest	1,905	56		1,905 56
Transfer from subway, see				
11th report	4	95		, 4 95
	2040.050			2040 OFF0 00
	\$242,873	93		\$242,873 93
		_		

Observations Decision	From beginning of work to Dec. 31, 1927.	Jan. 1, 1928, to Dec. 31, 1928.	Total.
Charlestown Bridge: Total	. \$1,570,197 98		\$1,570,197 98
Investigation of Conges tion of Traffic, etc.	\$3,015 92		\$3,015 92
East Boston Tunnel — Part of General Ex			
penses	. \$161,134 78		\$161,134 78
Engineering and miscel laneous	199,688 73		199,688 73
Section A	98,869 09 1,488,716 99		98,869 09
B	1,488,716 99 508,202 77	\$437 77	1,489,154 76 508,202 77
Ď : : :	246,569 26		246,569 26
E	188,307 72		188,307 72
F	243,763 23		243,763 23
Interest	248,156 88		248,156 88
	\$3,383,409 45	\$437 77	\$3,383,847 22
Boston Tunnel and Sub-			
way — Part of General Expenses	\$226,547 21		\$226,547 21
Engineering and miscel- laneous	419,490 59		419,490 59
Section One	815 591 24		815,591 24
Two	614,158 55	\$24 74	614,183 29
$egin{array}{cccc} \mathbf{Three} & . & . & . & . & . \end{array}$	683,842 49 1,205,265 07	57 54	683,842 49 1,205,322 61
Five	1,080,426 43	Cr. 298 85	1,080,127 58
Six	351,508 79	0.1.200 00	351,508 79
Seven	139,723 14 617,152 07	202 82	139,723 14 617,791 57
Eight	617,152 07	639 50	617,791 57
Nine	678,964 18 142,835 42		678,964 18 142,835 42
Eleven	345,493 91		345,493 91
Twelve	45,417 52		45,417 52
Interest	648,179 81		648,179 81
	\$8,014,596 42	\$422 93	\$8,015,019 35
Cambridge Connection —			
Part of General Expenses	\$67,261 25		\$67,261 25
Engineering and miscel-			· ·
laneous	258,505 56	69.96	258,505 56
Section One	590,277 28 643,633 35	\$3 36 7,716 19	590,280 64 651,349 54
Interest	76,722 00	.,.10 10	76,722 00
	\$1,636,399 44	\$7,719 55	\$1,644,118 99
Dorchester Tunnel — Part of General Expenses Engineering and miscel-	\$197,392 47		\$197,392 47
laneous	833,272 33		833,272 33
Carried forward	\$1,030,664 80	_	\$1,030,664 80

	From beginning	Jan. 1, 1928,	
	of work to Dec. 31, 1927.	to Dec. 31, 1928.	Total.
Brought forward .	\$1,030,664 80	Dec. 31, 1926.	\$1,030,664 80
Section A	409.378 71		409,378 71
С	460,379 33		460,379 33
<u>B</u>	884,472 44		884,472 44
D	1,127,367 73	\$2,342 65	1,129,710 38
E F	2,366,598 58 867.677 11	765 84	2,366,598 58 868,442 95
Ġ : : :	867,677 11 615,245 51	100 04	615,245 51
$\widetilde{\mathbf{H}}$	892,879 48		892,879 48
<u>J</u>	964,334 38	3,297 95	892,879 48 967,632 33
K	1,292,010 13	24,061 77	1,316,071 90
Interest	1,312,320 20		1,312,320 20
	\$12,223,328 40	\$30,468 21	\$12,253,796 61
D 11 Ct 1C 1			
Boylston Street Subway —			
Part of General Expenses	\$104,155 53		\$104,155 53
Engineering and miscel-	φ101,100 00		\$101,100 00
laneous	240,002 03	\$38 84	240,040 87
Section One	761,603 46	1,488 08	763,091 54
Two	1,232,792 88 585,564 58		1,232,792 88 585,564 58
Three Four	1,458,935 20		1,458,935 20
Five	729,130 63	10 54	729,141 17
Interest	320,194 59		320,194 59
	Ø5 420 270 00	01 E97 AC	er 422 016 26
	\$5,432,378 90	\$1,537 46	\$5,433,916 36
East Boston Tunnel Ex-			
tension — Part of	****		
General Expenses .	\$38,383 04		\$38,383 04
Engineering and miscel- laneous	976,250 79		976,250 79
Section G	328,592 37		328,592 37
Н	673,456 36		673,456 36
J	135,724 66		135,724 66
Interest	224,138 91		224,138 91
	\$2,376,546 13		\$2,376,546 13
A 11 / C/ / T			
Arlington Station — Part of General Expenses.	\$41,313 26		\$41,313 26
Engineering and miscel-	\$41,010 ZU		φ41,010 20
laneous	72,952 00		72,952 00
Construction	580,012 92	\$1,851 99	581,864 91
Extension	483,003 78	1 39	483,005 17
Interest	55,738 68		55,738 68
	\$1,233,020 64	\$1,853 38	\$1,234,874 02
East Boston Tunnel Al-			
terations — Part of			
General Expenses .	\$75,407 79		\$75,407 79
Engineering and miscel-			
laneous	171,767 65	@40. co	171,767 65
Construction	3,407,131 89 168,217 76	\$42 62	3,407,174 51 168,217 76
11101000			
	\$3,822,525 09	\$42 62	\$3,822,567 71

W 1 D 10 D 1	From beginning of work to Dec. 31, 1927.	Jan. 1, 1928, to Dec. 31, 1928.	Total.
Hyde Park Street Railway —Part of General Expenses Engineering and miscel-	\$2,195 04		\$2,195 04
laneous	313,660 98	Cr. \$3,950 00	309,710 98
	\$315,856 02	Cr. \$3,950 00	\$311,906 02
Cambridge and Court Streets Widening — Bills paid by Street Laying-Out Department,	<u>\$163_82</u>	Cr. <u>\$163_82</u>	
Tremont Street Subway Alterations — Acts 1924, Part of General	@1 009 50		#1 002 FO
Expenses	\$1,093 59		\$1,093 59
laneous	819 20 2,401 75		819 20 2,401 75
Brattle Street—Easterly Platform	7,723 72 28 56	\$20 54	7,723 72 49 10
Haymarket Station . Park Street Station —	15,161 01		15,161 01
North Platform . Column Changes . Scollay Station	4,486 41 720 01 420 80	2,877 97	4,486 41 3,597 98 420 80
Scollay Station Changes — Cambridge and Court Streets Widening .	6,065 17	1,246 67	7,311 84
	\$38,920 22	\$4,145 18	\$43,065 40
East Boston Tunnel Alterations, Acts 1924: Atlantic Station East Boston Tunnel.	\$2,547 08 5,105 13		\$2,547 08 5,105 13
Scollay Station Scollay Station Changes — Cambridge and Court Streets Widen-	48 72	\$19 29	68 01
ing	3,856 64	799 93	4,656 57
	\$11,557 57	\$819 22	\$12,376 79
Dorchester Rapid Transit — Part of General Expenses	\$130,507 09	\$38,627 99	\$169,135 08
Engineering and miscel- laneous	1,974,986 15	528,508 48	2,503,494 63
Section One	1,708,541 38 1,011,465 79	90,362 01 537,671 07	1,798,903 39 1,549,136 86
Three	739,089 14	138,791 83	877,880 97
Four	546,752 14 20,598 11 159,666 67	865,453 54 260,313 51 325,769 16	1,412,205 68 280,911 62 485,435 83
	\$6,291,606 47	\$2,785,497 59	\$9,077,104 06

	From beginning of work to Dec. 31, 1927.	to	Total.
Chapter 78 — Resolves of 1913	\$389 14		\$389 14
Chapter 84 — Resolves of 1913	\$636 58		\$636 58
Dorchester Tunnel Exten-			
sion	\$520 19		\$520_19
Grand Totals \$	50,724,084 97	\$2,828,830 09 3	\$53,552,915 06

The report of the Chief Engineer giving the work in detail follows.

Thomas F. Sullivan, Nathan A. Heller, James B. Noyes, Commissioners.

REPORT OF THE CHIEF ENGINEER.

Boston, December 31, 1928.

Thomas F. Sullivan, Nathan A. Heller and James B. Noyes, Commissioners, City of Boston Transit Department.

Gentlemen,— I herewith submit a report for the year ending December 31, 1928.

During the past year two additional sections of the Dorchester Rapid Transit were completed and put in operation. These were Sections Three and Four, extending from Fields Corner to Codman Street, beyond Ashmont. Section Three, the covered section, included the Shawmut Station. Section Four included the Ashmont Transfer Station and the Codman Street Yard. Other construction work finished during the year was the enclosed area with bus terminal and central heating plant at Fields Corner. A new bridge just east of the old Geneva Avenue Bridge near Fields Corner was also built and finished in the fall of the year.

The engineering work of the department has continued along the lines described in previous reports, the field work being under the direction of Assistant Chief Engineer Wilbur W. Davis, and the office work under the supervision of Designing Engineer Leonard B. Howe.

In addition to the work in progress at the date of the last report, plans and specifications were prepared for new construction work and contracts let as follows:

Columbia Station, Overpass to Crescent Avenue, Section One.
Geneva Avenue Bridge, Section Two.
Paving and fences at the Enclosed Area, Section Two.
Superstructure, Ashmont Station, Section Four.
Plumbing, Ashmont Station.
Granolithic Platforms, Ashmont Station.
Hand Rails, Ashmont Station.
Iron Fences, Ashmont.
Wire Fences, Ashmont and Codman Street Yard.
Entrance and Exit Building to Ashmont Station, Peabody Square.
Excavation and Grading at Parking Area, Ashmont Station.
Concrete Wall and Roadway at Parking Area, Ashmont Station.
Shelter at Parking Area, Ashmont Station.

Plastering in Passageways, Ashmont Station. Beale Street Sub-passageway, Section Four. Signal Tower, Section Four. Yardmen's Building, Codman Street Yard. Water Pipe, Hydrants, etc., Codman Street Yard. Bituminous Macadam Roadway, Codman Street Yard. General contract for Section 5A, including grading, filling, underpass. retaining walls, Crest Avenue Bridge, Neponset River Bridge, etc. Reconstruction, Metropolitan Sewer, Section 5A.

Equipment, including lead covered cable, copper wire, signals, malleable iron castings, etc.

DORCHESTER RAPID TRANSIT. SECTION ONE.

COLUMBIA STATION OVERPASS.

Construction was started this fall on an additional entrance and exit at Columbia Station for the use of passengers living in the vicinity of Crescent Avenue. The contract for this work was awarded on November 8 to A. G. Tomasello & Son. Inc., and work was begun immediately thereafter.

The work consists of a twenty foot extension of the present station platform and canopy, with a wooden passageway eight feet wide extending at the same level still farther to the south for a distance of one hundred fifteen feet. This passageway leads to a covered iron stairway which runs up to a foot bridge. or overpass, crossing above the outbound track. From the westerly end of the overpass another iron stairway descends in a southerly direction to the ground level outside the present wire fence which encloses the rapid transit right of way. From this point a granolithic walk connects with Crescent Avenue.

An automatic passimeter and an exit turnstile will be placed on the newly extended station platform. A six foot woven wire fence will be built on each side of the wooden passageway and high iron fences will be built on the sides of the iron stairways and overpass. The floors and roof are to be of reinforced concrete built on a structural steel framework. The roofing of the overpass and stairways is to be sheet copper while that of the station platform will be tar and gravel with a copper cornice.

Owing to the unsatisfactory soil conditions at this location it was necessary to carry the foundations down about fifteen feet to firm ground. This required careful bracing of the trenches as they were located between the two third-rail tracks over which rapid transit trains passed at from two to three

minute intervals. Close cooperation has, therefore, been necessary between the contractor and the Boston Elevated Railway in order to remove the excavated material, bring in construction materials and prevent serious accidents. Certain portions of the work have been done during the hours after midnight when no trains were running.

At the present time the foundations have been completed, the structural steel erected, the wooden platform built and some of the reinforced concrete placed.

SECTION TWO.

FIELDS CORNER ENCLOSED AREA AND HEATING PLANT.

This work was under way at the date of the last annual report and was carried through to completion by the contractor, the White Construction Company, during the winter and spring months.

The bus terminal building is about one hundred thirty feet by one hundred eighty-five feet and can house fifty-seven buses. It is built of brick with structural steel roof trusses and purlins. The trusses rest on steel columns embedded in the walls. The entire floor area is unobstructed by columns. The building is equipped with a sprinkler system and an oil and gasolene supply system.

The roof is made of precast concrete tile blocks over which is placed, except on the sloping parts, tar and gravel roofing. There are four large sky-lights, with wire glass, each fifteen and one-half feet by fifty-two feet, each containing three large revolving ventilators. The floor is of concrete laid off in sections and pitched so that the water will run into drains, each of which is connected with an arrester to catch the sand and gasoline and to prevent any from entering the sewer. There are four large entrance-exit doors for the buses. The entrance door from the busway is an electrically operated sliding door, twenty feet in width. The exit door to the busway is fifteen feet in width and is hand operated and has a six fold swinging door, three folds turning in each direction. Two large doors in the north side of the building open directly to the yard used for storing buses temporarily in the day time. This yard area is sufficient for an addition to the building to increase its capacity in the future to one hundred thirteen buses. The repair pit section of the building consists of a pit four and one-half feet below the level of the main

floor and supported on steel beams over the pit. These pits enable work to be done on the cars without jacking them up. The pit floor is ventilated by two horizontal ducts at the rear of the pit. In one of the ducts is provided connections which may be attached to the exhaust of the buses and the waste gases drawn away by suction. The other duct has openings through which air at the bottom of the pit is drawn away. There is also a battery charging room and a bus cleaners room in the pit section and a traveling hoist to facilitate handling equipment of the buses.

The office section is three floors in height and is twenty-nine feet by forty-one feet. In the basement of this section are rooms for oil tanks, tire repair parts, air compressor and gas heater. On the first floor are oil pumps, toilets, a foreman's office and a stockroom. On the second floor is the general storeroom, a room for garagemen, toilets and shower baths. Outside of the building is a gasoline filling station of the island type. The capacity of each of the two gasoline storage tanks is two thousand gallons.

The heating plant which supplies heat to the bus terminal and Fields Corner Station is a brick building about thirty-three feet by sixty-three feet located on Faulkner Street. The steam boiler is seventy-eight inches in diameter, about seventeen and one-half feet long and contains one hundred forty-four three-inch tubes. The building contains a pocket for coal, has an automatic coal handling system and an ash conveyer. There is space for an additional boiler. The smoke stack is steel of the self-supporting type fifty inches in diameter and one hundred feet high. The boilers and piping were tested satisfactorily and a certificate of completion was given on June 1.

A separate contract was advertised for fencing and paving the enclosed area and the contract was awarded to J. A. Singarella, the lowest of six bidders. The work was finished September 26.

The fence is a six-foot woven wire fence on top of a concrete curbing one foot high.

The paving for the roadway is of reinforced concrete eight inches thick. The roadway is over sixty feet in width and is about five hundred fifty feet long, connecting through to the entrance of the busway to Fields Corner Station.

The space in the enclosed area east of the garage that is to

be used for the storage of buses during the day time and also the area south of the concrete roadway between the roadway and the old Boston Elevated Railway car yard are both surfaced with cinders one foot in thickness laid on a gravel base and rolled smooth and hard with a five ton roller.

GENEVA AVENUE BRIDGE EXTENSION.

The easterly abutment of the old Geneva Avenue Bridge and the embankment just beyond obstructed the view of motormen on cars descending the northerly incline of the Fields Corner Station. This caused a slowing up of traffic to such an extent that it necessitated the removal of the abutment and also about fifty feet of the embankment in order to give a clear view and thus insure safe and satisfactory operating conditions. It was necessary to substitute a steel cross bent with columns in place of the old granite abutment. This bent was designed to support the east end of the old bridge and the west end of the new. The east end of the new bridge span was to rest on a new concrete abutment to be built at that point.

This work under ordinary conditions would have presented no serious difficulties, but located as it was between a busy trolley car incline on each side and Geneva Avenue with its tracks and auto traffic on the end, the space in which work could be carried on was very limited. In addition to this it was necessary to carry the two third-rail tracks located above, on which rapid transit trains were operating, while the abutment and embankment were removed beneath them and the new steel and concrete bridge substituted.

Plans were prepared and a method of operation worked out which was later carried through with practically no change. The general contractor for the work was A. G. Tomasello & Son, Inc. As this part of the line was in operation it was necessary, however, that all work pertaining to the tracks or the signal and power conduits be done by the railway company and the structural steel work on both the old and new bridge by the Department. The contract stated the order in which the work was to be carried on and specified in detail the divisions of the work to be performed by the general contractor, the Boston Elevated Railway and the Transit Department. It also provided for the closest cooperation on the part of all engaged to prevent accidents and keep the railway traffic moving. The method adopted was as follows:

The ballast under the third rail rapid transit tracks was removed and the tracks supported on heavy wooden stringers and steel beams, the steel beams being used at the abutments.

Excavation for the new easterly abutment was then carried down, the trench being sheeted with two inch poling boards. The rangers were six inches by eight inches and were braced by yellow pine braces of the same size.

The east end of the old Geneva Avenue Bridge was supported on temporary timber shoring built upon a heavy timber floor which was laid upon the easterly sidewalk. The timber floor was made up of two layers of twelve inch by twelve inch yellow pine timbers and the shoring consisted of eight bents made up of twelve inch by twelve inch timbers securely bolted together with three-quarter inch bolts. Steel plates and beams were placed on top of the bents and special steel wedges were driven in between the plates and the bottom of the bridge girders until the load of the bridge was taken up on the timber shoring. During the progress of the work levels were taken daily to note any slight settlement that might take place and permit the necessary wedging up to be done promptly.

Plate I is a view of this timber shoring and shows the old granite abutment that was later removed.

The signal cables in the embankment were removed and the conduits broken out. The power cables in this location were also temporarily relocated and the conduits removed.

The forms for the new easterly abutment and wing wall were then placed, reinforcing rods set and the concrete walls carried up in three lifts, rebracing the trench after each pouring of the concrete.

Three vertical slots were cut in the old granite abutment to permit building concrete foundations for the three steel columns. These columns and steel cross bents were erected as soon as the concrete foundations had set sufficiently and the necessary alterations had been made to the ends of the old bridge girders.

Enough earth was removed from the top of the old embankment between the new abutment and the steel cross bent to permit the new bridge girders to be placed and allow for the cross beams and wooden forms for the reinforced concrete floor, the tracks being reposted on blocking as the earth was removed.

The three girders for the new bridge, each about fortyeight feet in length and the heaviest weighing about thirteen

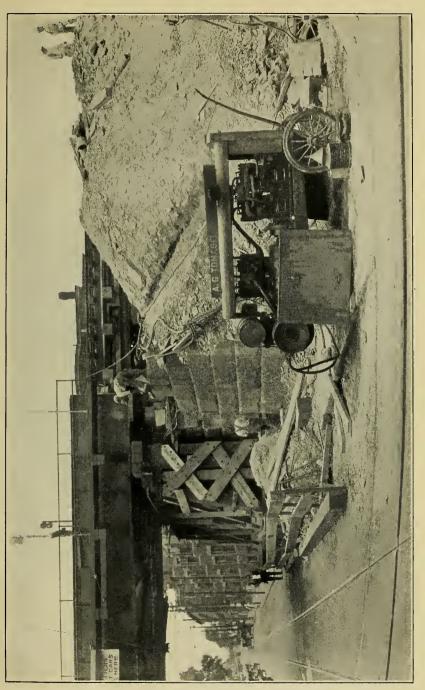


PLATE I.—TIMBER SHORING SUPPORTING GENEVA AVENUE BRIDGE DURING REMOVAL OF GRANITE ABUTMENT.



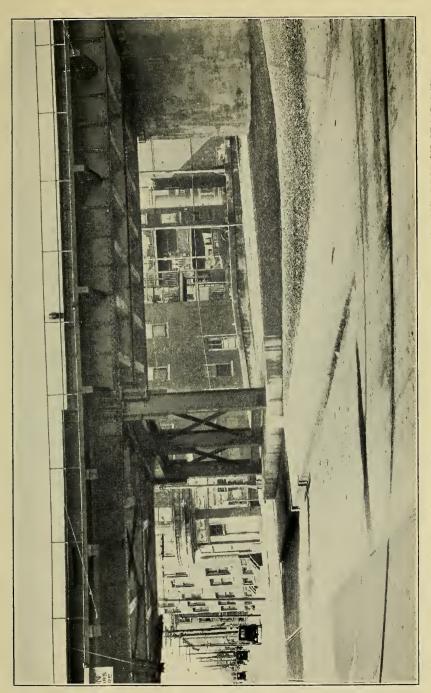
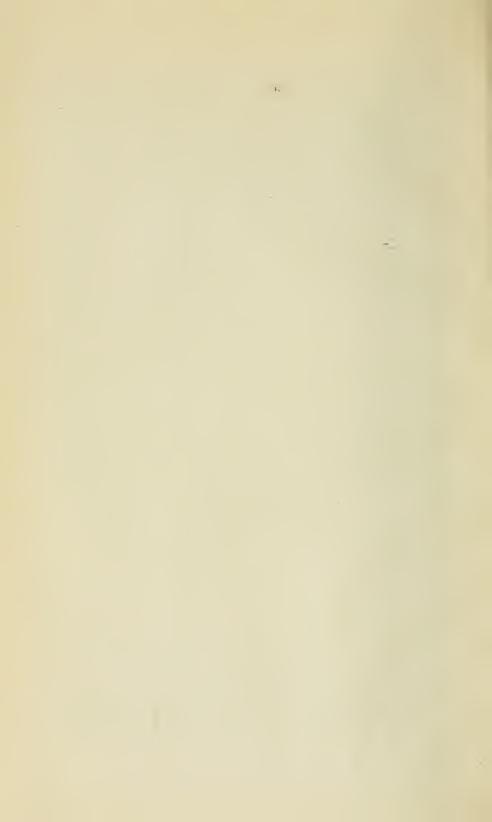


PLATE II.—GENEVA AVENUE BRIDGE, SHOWING NEW STEEL COLUMNS AND BRIDGE SPAN, REPLACING OLD ABUTMENT AND EARTH EMBANKMENT.



tons, were brought over the road on trucks from the Transit Department's steel shop and were swung into place after midnight by a Boston Elevated Railway derrick car. The floor beams were also erected and after the riveting was completed the temporary stringers carrying the tracks were supported on concrete blocks placed on the top flanges of the new floor beams.

The forms for the floor were then built, reinforcing placed and the concrete floor poured in sections, most of this work being done after midnight when trains had ceased running.

The new signal and power ducts were then laid and concreted, after which the cables were pulled through.

As soon as the concrete floor was set the temporary stringers were removed and crushed stone ballast placed beneath the ties and properly tamped. At no time during the replacing of the embankment by the new bridge were the tracks moved from their position or was train operation interfered with.

The earth core beneath the new bridge, which had been left between the new abutment and the steel cross bent, was then removed with a steam shovel.

The remainder of the old granite abutment was removed as was also the old northerly concrete retaining wall. The necessary grading was done and a new catch-basin built in connection with the drainage. The woven wire fence and northerly gate were relocated. The timber shoring was then removed from under the easterly end of the old bridge, the load of the bridge having been transferred from the old granite abutment to the new steel cross bent without causing any settlement to the bridge.

Plate II shows the old bridge over Geneva Avenue with the new bridge on the right.

SECTION THREE.

This section of the Dorchester Rapid Transit was well along toward completion at the beginning of the year. The portion from Geneva Avenue through Shawmut Station was finished first, as the possibility of extending the third rail service to this point from Fields Corner was then being considered. It was later decided, however, to open up Shawmut Station in conjunction with the opening up of the Ashmont Station beyond. Meanwhile, the work at this point was completed a few months ahead of the latter station.

The White Construction Company finished the Shawmut entrance and exit building on January 11.

The installation of the piping and plumbing in this station was completed by the Downey Company on January 19.

The plastering of the walls and ceiling of the station proper was completed by the George Craffey Company on January 11.

The contract for the granolithic platforms was let to A. G. Tomasello & Son, Inc., and this work was finished on January 21.

The stairway hand rails were installed under a contract with the J. A. Glass Company, and the work was finished on January 27.

The conduits and cinder concrete walk in the covered section to the south of Shawmut Station were built by C. M. Callahan, Inc. The installation of the tracks and signal and power cables followed as fast as this work was completed. Station equipment, such as signs, booths, passimeters, etc., was also put in by the Boston Elevated Railway under their contract with the Department for the equipment work.

All sidewalks and gutters adjacent to the five streets which cross over Section Three, and which were disturbed by the excavation for the covered section at these points, were relaid after allowing several months for the refilled ground to settle permanently. The work at Park Street was done by A. G. Tomasello & Son, Inc. The work at Melville Avenue, Mather Street, Centre Street and Welles Avenue was done by J. A. Singarella. At all these street crossings, and along the walks leading to the Shawmut Station, iron pipe rail fences were installed by the Department's ironworkers.

Plate III shows the entrance and exit building at Shawmut Station, which is located on the roof of the covered section, the station proper being directly below.

Plate IV shows the interior of the Shawmut Station at the platform level.

SECTION FOUR.

Construction work on this section, which includes the Ashmont Station and the Codman Street Yard, was in progress at the date of the last annual report.

The Ashmont Station is a transfer station where passengers may change from one type of service to another within the

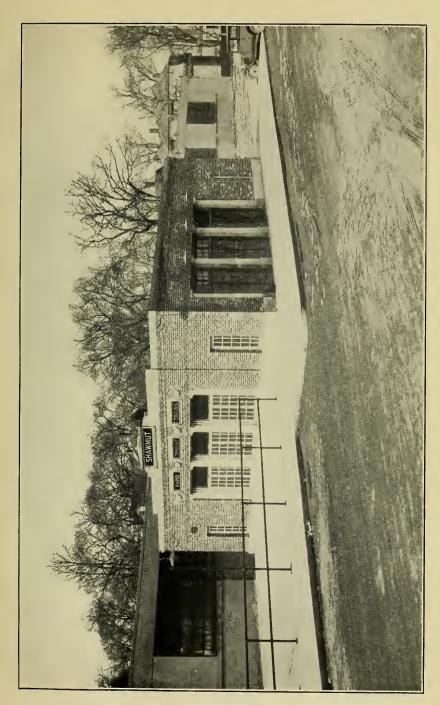


PLATE III.—ENTRANCE AND EXIT BUILDING, SHAWMUT STATION.

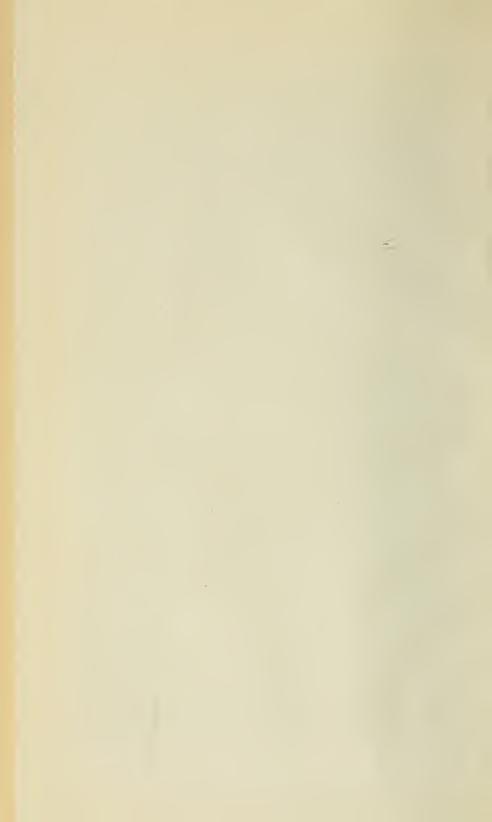




PLATE IV.—SHAWMUT STATION, INTERIOR VIEW AT TRAIN PLATFORM LEVEL.



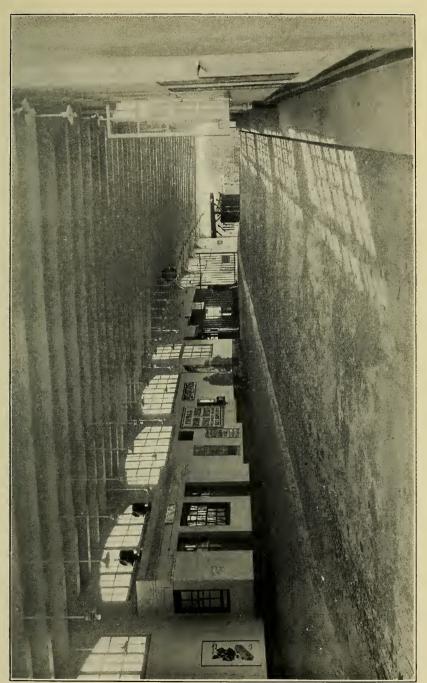


PLATE V.—BUSWAY AND PLATFORM, ASHMONT STATION.



station limits. Provision is made for third rail trains, high speed trolleys, street cars and buses.

The platforms for the trains and all trolley cars are on the same level. The train platforms and the inbound trolley platform are three hundred feet long with provision for future extension of the train platforms to four hundred thirty-five feet. The outbound trolley car platforms are two hundred fifty feet long.

In the main part of the station there are two third rail tracks and four trolley car tracks. The trolley track on the east of the third rail tracks is for inbound cars and the three trolley tracks on the west are for outbound cars. The easterly platform is the loading platform for the rapid transit trains and is provided with change booths and passimeters.

The busway is on the west of the train shed with the floor at a higher level which permits bus passengers to transfer to and from trains and cars by means of an overhead passageway which crosses the tracks and from which there are six stairways down to the various platforms. The busway is a twenty-two foot concrete roadway with a seven foot sidewalk entering the station in an easterly direction from Dorchester Avenue near the southerly end of the station area. It then swings to the left passing through the station in a northerly direction, with the exit on Dorchester Avenue near the northerly end of the station. The width of the roadway where it passes through the station is twenty feet. The bus platform in the station is fourteen feet wide with a lobby near the center, in which are located change booths and passimeters. A fence at this point separates the platform into an unloading and loading platform, each of sufficient length for five buses to unload and for six to load. The passageway leading from the bus lobby to the platform stairways is used for both inbound and outbound bus passengers.

Plate V is an interior view of the busway and platform.

Provision is made for pedestrians to enter Ashmont Station from the north by way of an entrance-exit building at Peabody Square and from the south by the way of a walk from Radford Lane leading to the southerly end of the loading platform for the trains, also by the way of a walk at the side of the busway from Dorchester Avenue. The trolley cars enter the station from Dorchester Avenue to the southerly end, cross over the rapid transit tracks on a viaduct loop and unload at the plat-

form adjacent to the inbound rapid transit tracks. These cars then proceed directly to Dorchester Avenue or loop around over the covered section north of the station and enter again on any one of the three loading tracks mentioned above.

Plate VI is a plan showing the layout of the station together with the viaducts, busway and approaches.

Construction work under the general contract was being actively pushed at the close of the year by the contractor, the C. & R. Construction Company. The work was continued without interruption through to completion on June 12.

During the early months of the year, the reinforced concrete floor for the busway was built, and the steel work erected for the surface car viaducts, both at the north and south ends of the station. The reinforced concrete floors and encasement work on viaducts followed. Concrete retaining walls were built and signal and power conduit lines completed. The necessary grading was done at the stations and the yard, and also along the rapid transit and high speed trolley right of way.

ASHMONT STATION BUILDINGS.

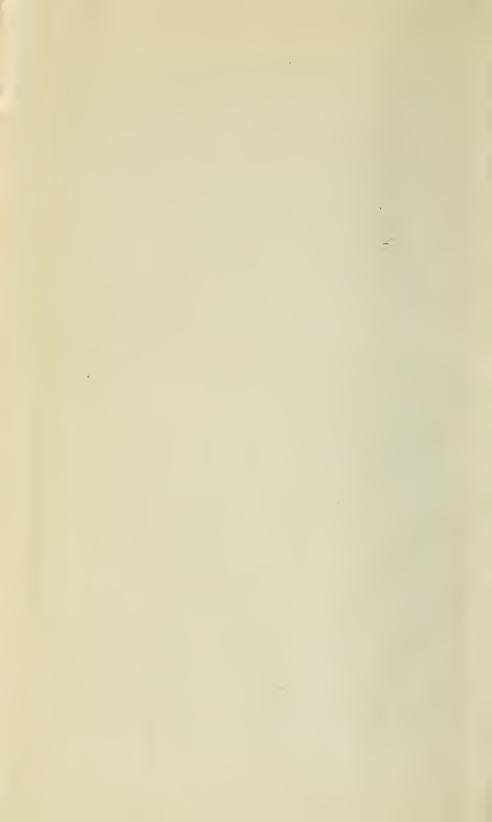
The work under the general contract had advanced far enough in January to permit the construction of the station entrance and exit building near Peabody Square, and bids for this work were called for. On February 6 a contract for this work was awarded to the Suffolk Construction Company, the lowest of nine bidders.

This building is in general character similar to other station entrance and exit buildings along the rapid transit line. The exterior walls are of tapestry brick with brown stone cappings. The interior of the walls is faced with white enamel brick. The roof is of steel and reinforced concrete construction with white plastered ceilings. The roofing is tar and gravel with copper flashing and down spouts. The floors are granolithic with a dark sanitary base course, about twelve inches high at the walls.

Granolithic walks lead to the building from Peabody Square and Dorchester Avenue, and an ornamental iron fence with brick posts runs along the property line. The layout of the forecourt and the design of this building as well as the station superstructure was made by William D. Austin, Consulting Architect for the Department. The contract for this work was completed on June 22.



PLATE VII.—TRAIN AND SURFACE CAR PLATFORMS, ASHMONT STATION.



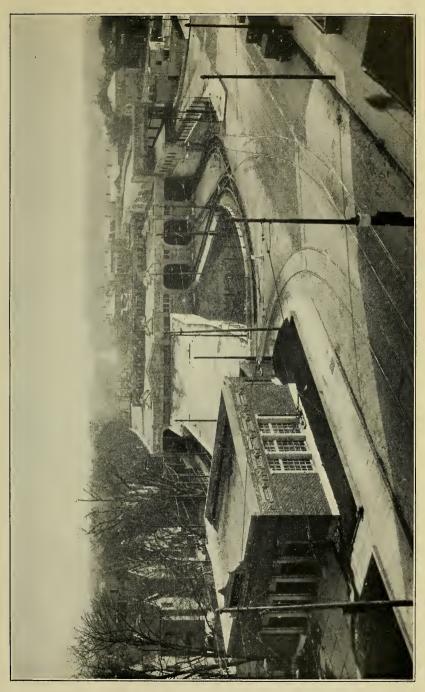


PLATE VIII.—GENERAL VIEW, ASHMONT STATION.



The passageways leading from this building to the main part of the station were finished with white cement plaster under a contract with A. V. Day and Company.

The superstructure for the main part of the Ashmont Station was built under a contract awarded on March 28 to the Matthew Cummings Company, the lowest of eleven bidders. The contract included the construction of the superstructure, which covered the two rapid transit tracks, the four trolley car tracks together with their respective platforms, and also the busway and busway platform. The overhead passageway from the bus platform lobby connecting with the station platforms was also included in the contract, as were the stairways, waiting rooms, toilet rooms, signal rooms, booths, etc.

The walls of the superstructure are of reinforced concrete. The roof is of two inch yellow pine tongued and grooved plank nailed to three by six inch nailing pieces which are bolted to the steel roof purlins. The roof is tar and gravel with copper flashing and down spouts. There are twenty-two skylights each about nine feet square.

The structural steel framework was fabricated and erected by the department ironworkers.

The windows in the busway and the east wall of the station are of the casement type. Those in the rest of the station and in the passageways have double hung sash.

The interior surfaces of the building are painted white, the steel work being of a mottled green.

Granolithic platforms and walks were built by the same contractor under another contract. The superstructure was finished on July 26, and the platforms on July 18.

The piping and plumbing fixtures were furnished under a contract with Pierce & Cox.

The hand rails for all stairways were furnished under a contract with Alphonsus Leo Walsh.

Plate VII shows the interior of Ashmont Station.

Plate VIII shows a general view of the Ashmont Terminal taken from Peabody Square. At the left can be seen the entrance and exit building, which is located over the covered section through which rapid transit trains pass. The passageways from this building run on each side of the rapid transit tracks in the covered section to the station platforms beyond. In the center of this picture can be seen tracks for the surface cars, which enter this station down a slight incline. To the

right is the superstructure of busway, and on the extreme right may be seen the auto parking space. From the busway the overhead passageway is shown connecting with train and car platforms in the station.

The Ashmont Sub-Station on Beale Street located within the limits of the terminal, which was started last year by the White Construction Company, was completed on April 26.

The equipment for this station is similar to that in the Harrison Square Sub-Station, which was described in detail in the 1926 report. Rotary converters, transformers, switchboards, etc. were furnished under a contract with the General Electric Company, and were installed by the Boston Elevated Railway Company under the equipment contract.

Directly south of the Ashmont Station, at a point where the trolley car viaduct crosses above the rapid transit tracks, a signal tower was constructed. It was built of tapestry brick with reinforced concrete floors, and has a copper covered roof The contract for this building was awarded to the Banspar Construction Company on April 20, and the building was completed on May 25.

The signal tower controls the interlocking and signal system for trains to and from the main line and the yard. The switches are operated by compressed air which is automatically controlled electrically, while the signals are entirely electric. The compressed air is taken from air compressors located on the ground floor of the switch tower while the electric power operating all interlocking apparatus is taken from the main power supply.

A sub-passageway was built under the rapid transit right of way for the convenience of passengers and others going between Beale Street and Radford Lane. The passageway is about eleven feet wide with stairways at each end. It is built of reinforced concrete covered with a waterproofed fabric which in turn is protected with a concrete skin coating. The building of this passageway necessitated the relocation of a six inch water main, also the reconstruction of a twelve inch vitrified pipe sewer. The contract was awarded to A. G. Tomasello & Son, Inc. The work was completed on May 19.

Plate IX is a view from Ashmont Station looking south toward the yard. The trolley car viaducts are shown crossing the rapid transit tracks, with the entrance to the Beale Street

PLATE IX.—VIEW LOOKING SOUTH FROM ASHMONT STATION.



Passage beneath. The signal tower and a portion of the Sub-Station are shown on the right.

The area which is enclosed by the busway, the busway viaduct and Dorchester Avenue was reserved for a parking space for automobiles driven by those desirous of using the rapid transit facilities. Many of the details as to the ramps, stairways and other facilities had not been finally determined upon, but enough information was available to permit the rough grading to be done before the date set for opening the rapid transit line to Ashmont.

A brick building located at 1946 Dorchester Avenue still remained on this property and was being used as a field office by the department engineers. New quarters for the engineers were obtained in a vacant store on the other side of Dorchester Avenue, and the brick building was torn down by the Fellsway Wrecking Corporation.

The contract for excavation and grading was awarded to Cronin & Driscoll. The surplus material was used for filling farther out along the line at Shawmut Junction. The work was completed on August 11.

CODMAN STREET YARD.

The yard is about nine hundred feet long and covers an area of about eleven and one-half acres. A loop track runs around the yard, the interior space being partially filled with storage tracks allowing room for additional tracks in the future. There are seven storage tracks, one having an inspection pit. There is storage space for sixty cars on the storage tracks and thirty cars on the loop track with room for expansion to accommodate a total of two hundred six cars and also allow room for a repair shop.

The rapid transit right of way on Section Four south of Ashmont Station and including Codman Street Yard is enclosed by a six foot woven wire fence on a concrete curb similar to the fences enclosing the right of way on the other sections of the line. The contract for this fence, which is over seven thousand feet in length, was let to the Banspar Construction Company. It was completed on July 18.

A building for use of the yardmen and for the storage of materials and tools for inspecting was built in the northeast corner of the yard. The building is twenty-six by sixty-five feet and one story in height. The exterior walls are of tapestry brick with artificial stone capping, and the interior is lined with face brick. The floors are of granolithic. A chimney thirty-four feet high was built in connection with the steam heating plant. The building is equipped with lockers, toilets, showers, etc. It was built by the Banspar Construction Company, and was finished on August 25.

A roadway was constructed by A. G. Tomasello & Son, Inc. running from the yardmen's building down an incline parallel to the surface car track to Codman Street. It is twelve feet wide and has a bituminous macadam surface.

Fire protection for the yard was provided by a six inch water pipe led in from Codman Street to a six inch pipe running east and west between the storage tracks. Three fire hydrants are located at convenient points. This work was done under a contract with C. M. Callahan, Inc.

Plate X is a plan showing general layout of yard and approach.

The installation of equipment on Section Four followed the construction work very closely in order that the line might be opened as planned on the first of September.

OPENING NEW SECTIONS OF LINE TO ASHMONT.

With the completion of Sections Three and Four, the third rail service was extended from Fields Corner through Shawmut to Ashmont.

The official inspection was on August 31, when His Honor Mayor Malcolm E. Nichols, together with the representatives of the state and city government, rode over the line and inspected the work. The following morning the new line was put in operation. Trains are running on a two minute headway in the morning and evening and a three minute headway the rest of the day. From Harvard Square, Cambridge, through Boston proper to Ashmont the distance is about nine miles. The running time is twenty-five minutes.

PARKING AREA.

The detailed plans for the use of this area were determined upon shortly after the opening of the line to Ashmont. A concrete ramp on a ten per cent grade and twenty feet in width was built running down from a landing space on the easterly side of and parallel to Dorchester Avenue into the parking area. Additional concrete retaining walls were also constructed.



PLATE XI.—AUTO PARKING AREA, ASHMONT STATION.





PLATE XII.—AERIAL VIEW, CODMAN STREET YARD AND ASHMONT STATION.



Both the ramp for the cars and the walls were built under contract with Alphonsus L. Walsh, and finished on October 11.

The entire area has a capacity for the storage of about two hundred automobiles at one time. It is enclosed with a wrought iron fence four feet in height above the concrete curb. This fence, together with other sections of fence and gates for the station, was built under contract with W. A. Snow Iron Works, Inc., and completed on November 14.

A stairway from the parking area to the busway platform is provided for autoists wishing to enter the station. The exit from the station to the parking area is on the lower level where turnstiles are placed under the busway.

A contract was awarded to the Norris Company for building a shelter in connection with the parking area. The building was sixteen by twenty feet in area, and was built of reinforced concrete with a wooden roof covered with a tar and gravel roofing and copper flashing. This work was completed on November 15, and the parking area opened for use on November 19.

Plate XI is a view showing the parking area looking northerly from the busway.

Plate XII is a view from the air showing Codman Street Yard and Ashmont Terminal.

SECTION FIVE.

This section as originally planned extended from a point near Shawmut Junction through Milton to Mattapan. It provided for the construction of two high speed trolley tracks as far as Milton Station. Beyond that point a single track was provided to Mattapan, a distance of a mile and a half.

At the request of the Boston Elevated Railway, several new studies were prepared showing a double track layout for this latter distance with an additional station near Valley Road in the town of Milton, and also a new plan for the station and yard at Mattapan. While this matter was under consideration it was decided to start construction work on that part of Section Five on which no change of plan was contemplated. This portion was therefore designated Section Five A.

SECTION FIVE A.

This section extends from a point at the Cedar Grove Cemetery Bridge near Shawmut Junction to the Milton Station and is about two-thirds of a mile in length.

The Act authorizing the construction of the Dorchester Rapid Transit, including the acquisition of the Shawmut Branch, provided that the railroad should have suitable freight connections from the junction of their existing track from Neponset to Shawmut Junction with the Shawmut Branch to the sidings then in use on the Branch between Shawmut Junction and Central Avenue. In order, therefore, to provide for the freight service on the westerly side of the Shawmut Branch railroad tracks between the Junction and Milton, and at the same time avoid crossing the rapid transit line at grade, a freight track underpass was designed to be located at the Junction. This underpass is similar to the one built by the department and now used by the New Haven Railroad at its approach to the Freeport Street freight yard on Section One.

The location of the underpass and the earth embankment of the approach incline was directly over an old metropolitan sewer. This sewer also ran under the proposed relocation of one of the railroad freight tracks. The sewer was egg shaped three by four feet and was made of brick with some concrete protection at the sides. Owing to the increased load to be placed upon it from the underpass and the freight track, it was necessary to rebuild this sewer for a length of about sixteen hundred feet. An agreement was made with the Metropolitan District Commission for the reconstruction of the sewer by this department, and a contract for the work was awarded to the C. & R. Construction Company, the lowest of twelve bidders.

A new reinforced concrete sewer of similar dimensions to the old was built adjacent to the old sewer, after which the flow was turned into it, and the old sewer then demolished and filled in. The new sewer for about one half its length was built over marshy ground and required a wooden pile foundation. The remaining half was built on firm ground, consisting of ledge and large boulders, that required blasting for their removal. The work was started on April 17, and was completed on July 19.

GENERAL CONTRACT FOR SECTION FIVE A.

The work on this section consists of the construction of a road bed, drainage systems, concrete retaining wall, foundations, bridges, removal of structures, repaving, regrading, etc. The construction involves the relocation of the tracks of the New Haven Railroad, and therefore certain portions of the work

under the contract can be carried on only at certain times, as fully outlined in the specifications. The contract was let on September 4 to M. F. Gaddis, the lowest of ten bidders, and work was immediately started on the freight track underpass mentioned above.

SHAWMUT UNDERPASS.

Construction work was started at the northerly end of Section Five A. Excavation was begun for the retaining walls along the sides of the right of way through the Cedar Grove Cemetery and also for the foundations and walls of the Shawmut Junction Underpass. The construction of the concrete walls and the underpass followed and the work was finished during the fall. The underpass has reinforced concrete walls and invert with reinforced concrete roof slabs supported by steel beams encased in concrete. The southerly retaining wall of the underpass is supported on a wooden pile foundation, the main portion of the underpass being on firm ground. The filling for the approach embankments on both sides has also been placed.

The easterly track of the New Haven Railroad has been relocated on filling previously placed in the marshy ground on the easterly side of the former right of way. This track is now used for passenger and freight service and was relocated for a length of about twelve hundred feet.

CREST AVENUE BRIDGE.

The Crest Avenue Bridge, over the Shawmut Branch Railroad was an old wooden structure spanning only one track and supported on abutments and built of open jointed rubble masonry. The clearance above rails was less than that now allowed for new bridges and the reconstruction, therefore, necessitated raising the grade of the street. The new rapid transit road bed is to be built wide enough for two high speed trolley tracks which, together with the two freight tracks required to serve the industries on both sides of the new rapid transit line, makes necessary a new bridge spanning four tracks. The old bridge at this point was the only means of access to the community to the south of the railroad which made it necessary to keep this bridge open for traffic at all times during the period of reconstruction. This was accomplished by slightly altering the westerly half and then removing the east-

erly half of the old bridge, thus keeping one-half of the old bridge in use while building the easterly half of the new bridge. After the new bridge was completed the traffic was transferred onto it and the remaining half of the old bridge was then removed and the new bridge completed. Owing to the increased length and clearance it was necessary to increase the grade of the southerly approach. The filling for this new embankment was obtained from the excavation made for the new retaining walls which stretched to the east of the bridge as far as Butler Street. Provision on the bridge for pipes and duct lines was made in chambers under the concrete slabs of the new sidewalks. The work required the relocation of a six inch water pipe, a six inch gas pipe and telephone and electric cables. The new abutments and adjacent retaining walls are of reinforced concrete. The floor slab of the bridge is reinforced concrete supported on steel beams encased in concrete.

Plate XIII shows the easterly half of the bridge under construction. The rubble masonry abutments of the old one track bridge may be seen in the center of the picture.

NEW BRIDGES OVER NEPONSET RIVER.

The present bridge over the Neponset River, just east of the Milton railroad station, is a single track plate girder bridge spanning about ninety-three and one-half feet center to center of bearing on abutments. Additional bridges are required to carry the two rapid transit high speed trolley tracks also another railroad freight track, thus providing bridges for four tracks in all. In building the new bridges it will be necessary to move the present bridge up-stream about ten feet. This can be done after the new railroad bridge on the south is finished and must necessarily be done before the rapid transit bridge can be built as it occupies part of the spacing required for this latter bridge.

Approval of the plans for these new bridges was secured from the Massachusetts Department of Public Works and also the United States War Department, the river being navigable at this point.

Work on the new abutments for the bridges was started shortly after the contract was awarded. It was planned to build heavy concrete abutments of the gravity type, carried down to solid ledge. The specifications called for suitable coffer-dams to permit pumping out the water and examining

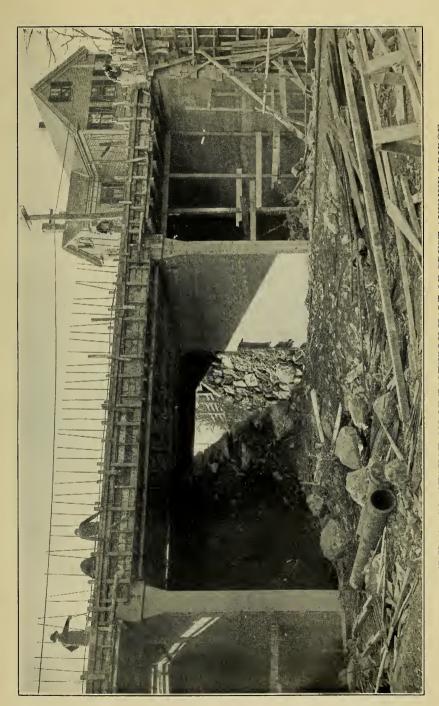


PLATE XIII.—CONSTRUCTION OF EASTERLY HALF OF CREST AVENUE BRIDGE.



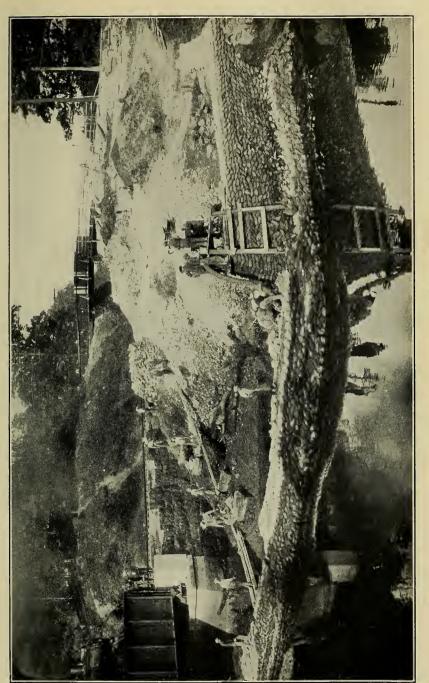


PLATE XIV—BUILDING SAND BAG COFFER-DAM FOR CONSTRUCTION OF EASTERLY ABUTMENT, NEPONSET RIVER BRIDGE.



the ledge. The contractor decided on sand bag coffer-dams and the construction of one on the easterly bank was immediately started.

Plate XIV shows this sand bag coffer-dam under construction. To date part of the concrete abutments and wing wall has been completed and work is being pushed on the remainder.

Preparations for the next Section have been made as far as it is possible to do so while questions concerning the general layout are still under consideration. Land takings have been made in Milton for the proposed new station at Valley Road and for the relocation of Eliot Street and the rebuilding of the Adams Street Bridge. Buildings on both corners of Eliot and High Streets were torn down by William H. McCormick and the building at the corner of Eliot and Adams Street was torn down by the Bay State Wrecking Company. It is expected that construction work on this Section can be started in the early spring.

TREMONT STREET SUBWAY.

RELOCATION OF VENTILATION SHAFT IN ADAMS SQUARE.

The removal of the statue of Samuel Adams from Adams Square to Dock Square opposite Faneuil Hall made it possible to move the subway ventilation opening to the position formerly occupied by the statue and by so doing greatly facilitate vehicular traffic through the square.

The roof of the ventilation chamber upon which the statue formerly rested was of reinforced concrete forty-two inches thick. This was drilled and broken out and the old ventilation grating relocated in its place. The old opening was closed by building a heavy reinforced concrete roof upon which grouted granite block pavement was laid on a two inch sand bed. The work was done during the fall by employees of the Department.

CYPHER STREET YARD, SOUTH BOSTON.

The yard and shops have been under the direction of Assistant Engineer Samuel G. Lyman. Construction supplies and materials have been handled here as in previous years. The necessary handling of cement for testing and also certain other work above referred to has been done by laborers from the yard.

The structural steel shop has fabricated the steel work

used on the various sections and certain parts of the structures have been erected by the ironworkers from the shop.

Plate XV shows one of the girders fabricated in the shop for the Neponset River Bridge on Section Five A. The girder is about nine feet deep and ninety-six feet long and weighs forty-five tons.

TESTING MATERIALS.

Inspection of materials and workmanship on all operations in connection with the construction on various sections has been carried on throughout the year by the Department inspectors. Mill and laboratory tests of materials has been made as in former years.

Reinforcing rods, structural steel rails and castings have been tested by the firm of Conrad and Buzby.

Physical tests of the samples taken from every load of cement have been made by Mr. Charles N. Ryan, Cement Tester, Public Works Department.

Chemical and physical tests of waterproofing and asphalt have been made by Mr. Hiram Y. Waterhouse, Chemist, Public Works Department.

Engineering Force.

There has been some reduction in the size of the engineering force during the year. The names of those members employed for more than one month are given in Appendix I.

Respectfully submitted,

Ernest R. Springer,

Chief Engineer.

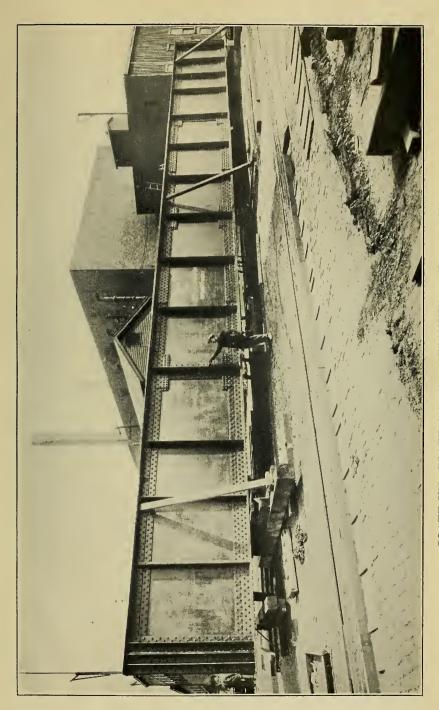


PLATE XV.—PLATE GIRDER, NEPONSET RIVER BRIDGE.



APPENDIX I.

The names of those who have been employed in the Engineering Division for more than one month during the period covered by this report are given below, together with an indication of the principal work upon which they have been engaged.

WILBUR W. DAVIS, Assistant Chief Engineer. In general charge of construction.

LEONARD B. Howe, Designing Engineer. In general charge of designing.

Assistant Engineers.

Thomas N. Ashton. Designs and details for structural steel, Dorchester Rapid Transit.

JOHN A. BERRIGAN. Track alignment calculations, land takings, detail plans, etc., Dorchester Rapid Transit.

Thomas A. Berrigan. Plans and designs for reinforced concrete and steelwork, Dorchester Rapid Transit.

RALPH F. BOUDREAU. Lines and grades, Sections 2 and 3; Surveys, Sections 5B and 5C, Dorchester Rapid Transit.

James D. Burns. Plans and designs for steelwork, Dorchester Rapid Transit.

HARRY T. CARROLL. Track alignment calculations, land takings, detail plans, etc., Dorchester Rapid Transit.

STANLEY J. CLIFFORD. Track alignment calculations and detail plans, Dorchester Rapid Transit.

John J. Cummings. Track alignment calculations and detail plans, Dorchester Rapid Transit.

Lester S. Daniels. Supervision of lines, grades and estimates, Dorchester Rapid Transit.

JOSEPH P. DEVER. Studies, specifications and estimates for Dorchester Rapid Transit.

 * Henry L. Donovan. Taking plans and steel details for Dorchester Rapid Transit.

ROBERT B. FARWELL. Supervision of construction of Sections 4 and 5A, Dorchester Rapid Transit.

RALPH A. FISHER. Designs and details of structural steel, Dorchester Rapid Transit.

LOUIS J. HARRIGAN. Studies and detail plans for sewers for Dorchester Rapid Transit.

HERBERT D. HURLEY. Design and details for structural steel and reinforced concrete for Dorchester Rapid Transit.

JOHN M. KENNEY. Plans and details for Dorchester Rapid Transit.

William W. Lewis. Supervision of construction and conveyance plans, Section 1, Dorchester Rapid Transit.

Benjamin A. Loveland. Designs and details for structural steel and reinforced concrete structures, Dorchester Rapid Transit.

^{*} Left the employ of the Transit Department.

Samuel C. Lyman. In charge of stockyard and steel shop at Cypher Street.

ARTHUR V. LYNCH. Supervision of track alignment calculations, taking plans, designs and detail plans for Dorchester Rapid Transit.

HARRY H. LYNN. Plans and details, Dorchester Rapid Transit.

HARRY F. SAWTELLE. Supervision of designs and details for structural steel and reinforced concrete structures, Dorchester Rapid Transit.

Herbert R. Stearns. Supervision of track alignment calculations, taking plans, designs and detail plans for Dorchester Rapid Transit.

Leo S. Stone. Supervision of escalator alterations. Studies, estimates and specifications for construction, Dorchester Rapid Transit. Supervision of specifications and contracts for equipment, Dorchester Rapid Transit.

EDWARD SULESKY. Designs and details for structural steel and reinforced concrete structures for Dorchester Rapid Transit.

ARTHUR W. Vose. Track alignment calculations, taking plans, detail plans, etc., Dorchester Rapid Transit.

David B. Weden. Designs and details for structural steel and reinforced concrete structures for Dorchester Rapid Transit.

Assistant Engineer and Inspector.

Frederick C. H. Eichorn. Supervision of construction of Section 2, Surveys, Sections 5B and 5C, Dorchester Rapid Transit.

Draftsmen.

EDMUND A. BARRETT. Lines and grades, Sections 1 and 5A, Surveys, Sections 5B and 5C, Dorchester Rapid Transit.

Boris Berestneff. Plans and details for steelwork, Dorchester Rapid Transit.

ROBERT D. GARDNER. Plans and details for steelwork, Dorchester Rapid Transit.

IRWIN J. HENNESSEY. Plans and details for structures, Dorchester Rapid Transit.

JOHN F. HOWARD. Plans and details for Dorchester Rapid Transit.

RALPH A. PLUNKETT. Plans and details for Dorchester Rapid Transit. Karl R. Saunders. Plans and details for Dorchester Rapid Transit.

Transitmen.

ROBERT S. Bowes. Lines and grades, Sections 2 and 3, Surveys Sections 5B and 5C, Dorchester Rapid Transit.

Patrick H. Boyle. Lines and grades, Sections 1 and 4, Dorchester Rapid Transit.

Thomas E. Carney. Lines and grades, Sections 4 and 5A, Dorchester Rapid Transit.

MICHAEL J. DRISCOLL. Lines and grades, Sections 2, 3 and 5A, Surveys Sections 5B and 5C, Dorchester Rapid Transit.

MICHAEL S. FOGARTY. Quantities for estimates, Sections 4 and 5A, Dorchester Rapid Transit.

George G. Hyland. Lines and grades, Sections 4 and 5A, Dorchester Rapid Transit.

ALBERT I. McDermott. Plans and details for Dorchester Rapid Transit.

- * JOSEPH J. O'BRIEN. Lines and grades, Sections 4 and 5A, Dorchester Rapid Transit.
- * Edward G. A. Powers. Lines and grades, Sections 2 and 4, Dorchester Rapid Transit.
- *Thomas E. Rafferty. Quantities for estimates, Sections 2, 3 and 4, Dorchester Rapid Transit.
- FRANK A. RULL. Photography and blueprinting.
- * JOHN J. RYAN. Lines and grades, Sections 4 and 5A, Dorchester Rapid Transit.
- FREDERICK W. STILES. Care of plans, survey records, etc., general office work.
- * Francis D. Sullivan. Lines and grades, Section 1, Dorchester Rapid Transit.

Rodmen.

- * Walter H. Barrett. Lines and grades, Sections 4 and 5A, Dorchester Rapid Transit.
- * John W. Burke. Quantities for estimates, Section 4, Dorchester Rapid Transit.
- * John F. Coughlin. Lines and grades, Sections 2 and 3, Dorchester Rapid Transit.
- * JOHN P. CROTTY, JR. Plans and tracings, Dorchester Rapid Transit.
- * STEPHEN C. DESROCHE. Lines and grades, Sections 4 and 5A, Dorchester Rapid Transit.
- LAWRENCE P. DONNELLY. Lines and grades, Sections 1, 2 and 5A, Dorchester Rapid Transit.
- * James J. Fitzgerald. Lines and grades, Sections 4 and 5A, Dorchester Rapid Transit.
- * John P. Glynn. Lines and grades, Section 1, Dorchester Rapid Transit.
- * Joseph F. Higgins. Lines and grades, Sections 2 and 3, Dorchester Rapid Transit.
- * Frederic H. Marley. Lines and grades, Section 4, Dorchester Rapid Transit.
- *WILLIAM McLAUGHLIN. Lines and grades, Section 4, Dorchester Rapid Transit.
- James A. O'Rourke. Lines and grades, Sections 4 and 5A, Dorchester Rapid Transit.
- RAYMOND V. PAGE. Lines and grades, Sections 4 and 5A, Dorchester Rapid Transit.
- * John A. Rooney. Lines and grades, Section 2, Dorchester Rapid Transit.
- * Herbert J. Stone. Lines and grades, Section 4, Dorchester Rapid Transit.
- * Leo J. Sullivan. Lines and grades, Section 1, Dorchester Rapid Transit.

Inspectors and Others.

THOMAS H. ARMSTRONG. Inspection, Sections 2, 4 and 5A, Dorchester Rapid Transit.

^{*} Left the employ of the Transit Department.

HAROLD M. BRADBURY. Inspection, Sections 2 and 3, Dorchester Rapid Transit.

John Doherty. Inspection, Sections 2, 4 and 5A, Dorchester Rapid Transit.

James F. Driscoll. Inspection, Sections 1 and 2, Dorchester Rapid Transit.

WILLIAM J. DRUMMOND. Inspection, Sections 4 and 5A, Dorchester Rapid Transit.

John J. Fallon, Jr. Inspection, Sections 4 and 5A, Dorchester Rapid Transit.

JOHN L. GEOGHEGAN. Inspection, Sections 4 and 5A, Dorchester Rapid Transit.

JOSEPH J. JOLLEY. Inspection, Sections 4 and 5A, Dorchester Rapid Transit.

Austin E. Joyce. Inspection and grouting, Sections 3 and 4, Dorchester Rapid Transit.

THOMAS H. KEENAN. Inspection, Section 4, Dorchester Rapid Transit.

STEPHEN V. McHale. Inspection, Sections 4 and 5A, Dorchester Rapid Transit.

EMANUEL N. REINHALTER. Inspection, Dorchester Rapid Transit.

JOSEPH E. REINHALTER. Inspection, Sections 4 and 5A, Dorchester Rapid Transit.

GEORGE E. SULLIVAN. Construction Accounts.

James E. Ward. Inspection, Sections 2, 4 and 5A, Dorchester Rapid Transit.

Clerical Force.

JOHN J. BRADLEY. Clerk — Timekeeping and daily reports, Sections 1, 2, 4 and 5A, Dorchester Rapid Transit.

KATHERINE I. DRISCOLI. Clerk and Stenographer.

John J. Farren. Construction Cost Accountant.

* Paul J. Kellaher. Clerk and Stenographer — Timekeeping and daily reports, Sections 2, 3 and 4, Dorchester Rapid Transit.

MARY E. McKernan. Clerk.

MABEL A. MURPHY. Stenographer.

Thomas J. Muldoon. Clerk and Stenographer at Cypher Street Stock-yard.

HENRY F. HORADAN. Blueprinting.

WILLIAM J. SKIFFINGTON. Blueprinting, Photography, etc.

RICHARD F. TOBIN. Field Work, Section 1, Dorchester Rapid Transit.

^{*} Left the employ of the Transit Department.

APPENDIX II.

BIDS FOR GRANOLITHIC PLATFORMS FOR SHAWMUT STATION, DORCHESTER RAPID TRANSIT. JANUARY 4, 1928.

Bidder.	Estimated Price.	Time.
C. M. Callahan, Inc. Suffolk Construction Company. John F. Shea & Company. J. A. Singarella. M. F. Gaddis. J. Slotnik Company. A. G. Tomasello & Son, Inc.*	3,551 .25 3,390 .00 3,206 .25 3,168 .75 3,083 .75	20 days 30 " 30 " 14 " 20 " 30 "

^{*} Awarded. Contract 889.

APPENDIX III.

BIDS FOR FURNISHING AND DELIVERING 125 M. F. B. M., MORE OR LESS OF LONG-LEAF YELLOW PINE LUMBER FOR ASHMONT STATION ROOF, DORCHESTER RAPID TRANSIT. JANUARY 30, 1928.

Bidder,	Estimated Price.	Time.
George McQuesten Company *	\$4,974 .94	45-60 days

^{*} Awarded. Contract 892.

APPENDIX IV.

BIDS FOR ENTRANCE-ENIT BUILDING AND ADJUNCTS, ASHMONT STATION,
DORCHESTER RAPID TRANSIT. JANUARY 30, 1928.

BIDDER,	Estimated Price.	Time.
Reynolds Bros., Inc	\$35,000.00 32,390.00 29,956.00 29,472.00	90 days 110 " 110 " 115 "
John Bowen Company	29,420.00 28,948.00	90 " (weather permitting) 90 days
Banspar Construction Company J. A. Singarella. Suffolk Construction Company *	27,700 .00 27,400 .00 26,992 .00	110 " 90 " 100 "

^{*} Awarded. Contract 893.

APPENDIX V.

Bids for Furnishing Lead Covered Rubber Insulated Cable and Soft Drawn Copper Wire. February 6, 1928.

Bidder.	Estimated Price.	Time.
Safety Cable CompanyStandard Underground Cable Company **.	\$52,223.00 49,668.80	30 days 4 weeks
American Steel & Wire Company *		35 days
The Okonite Company †		14 " 35 " 40 "

^{*} Awarded. Contract 894. 4 Items.

APPENDIX VI.

BIDS FOR FURNISHING AND DELIVERING COVERED INSULATED WIRE AND CABLE. FEBRUARY 20, 1928.

Bidder.	Estimated Price.	Time.
General Cable Corporation, Safety Cable Company Division Standard Underground Cable Company The Okonite Company † U. S. Rubber Company † Bishop Wire & Cable Corporation American Steel & Wire Company † *	\$4,400 .94 4,079 .85 4,032 .46 3,743 .87 3,538 .27 3,409 .45	45 days 42 " 40 " { a-e 40 days f-j 50 " 42 days 45 "

^{*} Awarded. Contract 897. 8 Items.

^{**} Awarded. Contract 895. 1 Item.

[†] Omitted 1 Item.

[†] Omitted 1 Item.

[‡] Prices conditional on receiving whole order.

APPENDIX VII.

BIDS FOR BUILDING A CONCRETE SEWER, CULVERTS AND A DRAINAGE DITCH, SECTION FIVE, DORCHESTER RAPID TRANSIT. MARCH 8, 1928.

Bidder.	Estimated Price.	Time.
Bruno & Pettitti. Reynolds Bros., Inc. John M. Tobin, Inc. Anthony Baruffaldi A. G. Tomasello & Son, Inc. M. DeSisto Company M. F. Gaddis. Louis Balboni. V. James Grande. A. DeStefano & Son, Inc. Banspar Construction Company. C. &. R. Construction Company*	60,447,50 59,947,50 57,680,00 55,595,00 54,550,00 50,510,00 48,135,00 46,643,50	100 days 150 " 170 " 120 " 90 " 160 " 120 " 120 " 150 " 160 " 120 "

* Awarded. Contract 899. One-half cost to be paid by Metropolitan District Commission.

APPENDIX VIII.

BIDS FOR ASHMONT STATION SUPERSTRUCTURE. MARCH 26, 1928.

Bidder,	Estimated Price.
C. & R. Construction Company. White Construction Company A. G. Tomasello & Son, Inc M. S. Kelliher Company J. A. Singarella A. Piotti Company. J. F. Fitzgerald Construction Company Banspar Construction Company Phandor Company J. Slotnik Company Matthew Cummings Company*	\$115,000.00 109,602.00 93,400.00 89,782.00 86,900.00 86,714.00 86,384.00 82,900.00 75,239.00 71,800.00 68,881.00

^{*} Awarded. Contract 898.

APPENDIX IX.

BIDS FOR A SYSTEM OF PLUMBING FOR ASHMONT STATION, DORCHESTER RAPID TRANSIT. APRIL 9, 1928.

Bidder.	Estimated Price.	Time.
William H. Mitchell & Son Company The Downey Company Edward C. Kelly Pierce & Cox *	5,176.00 5,036.00	60 days 42 " 30 " 55 "

^{*} Awarded. Contract 900.

APPENDIX X.

BIDS FOR PLASTERING A PORTION OF ASHMONT STATION, DORCHESTER RAPID TRANSIT. APRIL 9, 1928.

Bidder.	Estimated Price.	Time.
Stephen T. Keith Company	\$3,576.25 3,375.00	30 days 40 "

^{*} Awarded. Contract 901.

APPENDIX XI.

BIDS FOR BEALE STREET PASSAGEWAY, SECTION FOUR, DORCHESTER RAPID TRANSIT. APRIL 9, 1928.

^{*} Awarded. Contract 902.

APPENDIX XII.

BIDS FOR FURNISHING AND DELIVERING 360 TONS, MORE OR LESS, OF STRUCTURAL STEEL. APRIL 12, 1928.

BIDDER.	Estimated Price.	Time.
Bethlehem Steel Company *	\$16,366.24	45 days

^{*} Awarded. Contract 903.

APPENDIX XIII.

BIDS FOR BUILDING A BRICK AND CONCRETE SIGNAL TOWER NEAR BEALE STREET, ASHMONT STATION, DORCHESTER RAPID TRANSIT. APRIL 16, 1928.

Bidder,	Estimated Price.
J. Slotnik Company. M. S. Kelliher Company. R. J. Connolly J. A. Singarella Banspar Construction Company *	6,153.00 6,000.00 4,900.00

^{*} Awarded. Contract 904.

APPENDIX XIV.

Bids for Furnishing and Delivering 13 Tons, More or Less, of Iron and Steel Castings and Forgings. May 3, 1928.

Bidder.	Estimated Price.	Time.
Franklin Machine Company Atlantic Works * Progressive Iron Works, Inc. †	4,057.00	70 days 37 " 30 "

^{*} Awarded. Contract 905.

[†] No bid at Auditor's Office.

APPENDIX XV.

BIDS FOR REBUILDING SIDEWALKS, GUTTERS, ETC., ON SECTION THREE, DORCHESTER RAPID TRANSIT. MAY 10, 1928.

Bidder.	Estimated Price.	Time.
Banspar Construction Company. A. G. Tomasello & Son, Inc. C. M. Callahan, Inc M. Solimando. B. E. Grant Company. Samuel J. Tomasello J. A. Singarella *	1,314.25 $1,245.50$ $1,190.25$	27 days 30 " 30 " 30 " 60 " 20 " 30 "

^{*} Awarded. Contract 906.

APPENDIX XVI.

Bids for Furnishing and Installing Granolithic Platforms and Walks, Ashmont Station, Dorchester Rapid Transit. May 10, 1928.

Bidder.	Estimated Price.
C. M. Callahan, Inc. A. G. Tomasello & Son, Inc. Banspar Construction Company J. A. Singarella M. Solimando Matthew Cummings Company *	16,435.00 13,814.00 13,650.00 12,036.50

^{*} Awarded. Contract 907.

APPENDIX XVII.

BIDS FOR FURNISHING AND ERECTING WOVEN WIRE FENCE, CONCRETE FENCE, POST FOUNDATIONS, CURBS AND WALLS. MAY 14, 1928.

Bidder.	Estimated Price.
J. A. Singarella Guiney & Hanson Construction Company. M. Solimando A. G. Tomasello & Son, Inc Security Fence Company Banspar Construction Company *	29,446.79 28,902.25 27,160.75 26,506.24

^{*} Awarded. Contract 908.

APPENDIX XVIII.

BIDS FOR OAK HAND RAILS AND BRONZE FITTINGS, ASHMONT STATION AND VICINITY, DORCHESTER RAPID TRANSIT. JUNE 21, 1928.

. Bidder,	Estimated Price.	Time.
Millen Architectural Iron Works Banspar Construction Company James A. Glass Frank H. Letteney Alphonsus L. Walsh *	1,924.50 1,708.58	40 days 40 " 30 " 21 " 30 "

^{*} Awarded. Contract 911.

APPENDIX XIX.

BIDS FOR PAVING AND FENCES FOR ENCLOSED AREA AT FIELDS CORNER STATION, DORCHESTER RAPID TRANSIT. JUNE 21, 1928.

Bidder.	Estimated Price.	Time.
Samuel J. Tomasello Banspar Construction Company C. M. Callahan, Inc. M. Solimando A. G. Tomasello & Son, Inc. J. A. Singarella *	24,060 .00 21,100 .40 20,294 .80 19,237 .75	75 days 60 " 60 " 40 " 90 "

^{*} Awarded. Contract 912.

APPENDIX XX.

Bids for Furnishing and Laying Water Pipe, Codman Street Yard, Dorchester Rapid Transit. June 21, 1928.

Bidder.	Estimated Price.	Time.
Banspar Construction Company	2,608.25 2,590.00	60 days 35 " 35 " 30 "

^{*} Awarded. Contract 913.

APPENDIX XXI.

BIDS FOR A BRICK BUILDING IN CODMAN STREET YARD, DORCHESTER RAPID TRANSIT. JUNE 21, 1928.

Bidder.	Estimated Price.	Time.
John Bowen Company, Inc	\$18,700.00	95 days
J. A. Singarella	$17,800.00 \\ 17,200.00$	110 " 75 "
Guiney & Hanson Construction Company Joseph F. Rugo	16,990.00 16,900.00	120 " 65 "
P. J. Cantwell	16,769.00	90 " 75 "
M. S. Kelliher Company Banspar Construction Company *	16,493.00	60 "
J. Slotnik Company	16,293.00	80 "

^{*} Awarded. 'Contract 914.

APPENDIX XXII.

Bids for Earth and Masonry Excavation and Grading Near Ashmont Station, Dorchester Rapid Transit. July 16, 1928.

Bidder.	Estimated Price.	Time.
J. C. Coleman & Sons, Inc. M. Solimando. Cronin & Driscoll *	\$7,87500 6,387.50 4,620.00	20 days 35 " 18 "

^{*} Awarded. Contract 917.

APPENDIX XXIII.

BID FOR BITUMINOUS MACADAM ROADWAY, CODMAN YARD, DORCHESTER RAPID TRANSIT. AUGUST 27, 1928.

Bidder.	Estimated Price.	Time.
A. G. Tomasello & Son, Inc.*	\$2,085.00	10 days

^{*} Awarded. Contract 918.

APPENDIX XXIV.

Bids for Wrought Iron Picket Fence, Ashmont Station, Dorchester Rapid Transit. August 27, 1928.

Bidder,	Estimated Price.	Time.
P. J. Dinn & Company Progressive Iron Works, Inc. American Architectural Iron Works. Boston Ornamental Iron & Bronze Co. W. A. Snow Iron Works, Inc.*	$3,399.00 \ 3,179.50 \ 3,089.60$	45 days 8 weeks 45 days 75 " 21 "

^{*} Awarded. Contract 919.



APPENDIX XXV.

Canvas of Bids for Section 5A Dorchester Rapid Transit. August 29, 1928.

																		-										
		2s	За	ь	e	2c	30	4e	5e	8e	7e	d	e	2e	3e	f	21	3f	2	2g	k	1	m	2nı	n	7		
BIDDERS AND ADDRESSES	Earth Exervation 10,000 Cu. Yds	Rock Exercation 9,000 Cu Yds	Gravel Borrow .35,000 Cu Yds	Removing Masonry Etc. 800 Cu. Yd«.	Reinforced Concrete 3,500 Cu Yds	Unreinforced Concrete 2,000 Cu Yds	Smail Stone Concrete 100 Cu Yds	Cinder Concrete 200 Cu Yds	Cement Mortar 100 Cu. Yds	Concrete Surface 250 Sq Yds	Granolithic Walks 150 Sq. Yds	Brick Masoury 50 Cu Yds.	Viterfied Pipe 4"-6"-8" 300 Lm Ft.	Vitrified Pipe 10"-12" 1,200 Lin I't	Vitrified Pipe 15"-38" 50 Lin Ft	Reinforcing Rods 175 Tons.	Structural Nteel 350 Tons	Galvamzed Wire Cloth 11,000 Sq. Ft	Grout (1-13) 50 Cu Yds,	Grout (1-4) 50 Cu Yds	Supporting Buildings, Etc., Lump Sum,	Spruce Piles 2,000 Lan. Ft.	Removing and Resetting Neponset River Bridge Lump Sum.	Altering, Removing Crest Avenue Bridge, Etc., Lump Sum.	Carbor- undum Finish of Walls, Etc., 3,000 St. Yds.	Preparing Site, Etc., Lump Sum	Total	Time of Completion.
V. James Graude. 100 Academy Hill Road, Brighton	\$5 00 50,000 00	\$5 00 45,000 00	1 75 61,230 00	\$5 00 4,000 00	\$25 00 87,500 00	\$25 00 50,000 00	\$20 00 2,000 00	\$20 00 4,000 00	\$10 00 1,000 00	\$0.50 125.00	\$3 50 525 00	\$40 CU 2.000 CO	\$1 00 300 60	\$1 25 1,500 00	\$5 00 250 00	\$100 00 17,500 00	\$27 00 9,450 00	\$0 10 1,100 00	\$25 00 1,250 00	\$20 INI 1,000 DO	15,000 00	\$0.60 1,200.00	5,000 00	5,000 00	\$0.50 1,500.00	10,000 00	\$377,450 00	Dec 1, 1929
J C Coleman & Sons Co . 1620 Tremont St , Roxbury .	2 00 20,000 00	6 00 54,000 00	70,000 00	3 00 4,000 00		20 00 40,000 00	20 00 2,000 00	15 00 3,000 00	20 00 2,000,00	1 00 250 00	3 00 450 00	50 00 2,500 00	0 75 225 00	1.500 00	5 60 250 00	90 00 15,750 00	50 00 17,500 00	0 20 2,200 00	40 00 2,000 00	25 00 1,250 00	10,000 00	0,000 00	5,000 00	3,000 00	3,000 00	1,000 00	372,175 00	150 Days
Paul Caputo, 15 Tremont St , Boston	0 75 7,500 00	36,000 00	43,750 00	10 00 5,000 00	98,000 00	20 00 40,000 00	15 00 1,500 00	12 00 2,400 00	20 00 2,000 00	2 UU 500 EU	4 50 675 00	30 UN 1,500.00	1 00 300 00	1.500 00	3 00 150 00	77 00 13,475 00	45 00 15,750 00	0 03 330 00	20 (H 1,000 UH	12 00 600 00	35,000 00	2.00 4,000.00	2,200 00	500 00	0 50 1,500 00	5,000 00	323,130 00	250 Days
Coleman Bros , Inc , 245 State St , Boston	20,000 00	5.00 45,000 00	49,000 00		70,000 00	36,000 00		10 00 2,000 00	20 00 2,000 60	1 00 250 00	3 DO 450 00	50 00 2,500 00	1 00 300 00	1,500 00	5 00 250 00	100 00 17,300 00	35 00 12,250 HO	0 25 27 50	20 0H 1,000 H)	15 00 750,00	10,000 00	0 60 1,200 00	5,000 00	1,000 00	3,000 00	1,000 00	293,100 00	200 Days
White Coast Co . Inc . 11 Beacon St . Boston	10,000 00	36,000 00	1 25 43,750 00	1,600 (x)	22.00 77,000 00	15 00 30 000 00	25 00 2,600 00	10 00 2.000 00	1,000 00	0 90 225 00	2 70 405,60	40 00 2,000 00	300 00	1 00 1,200 00	2 50 125 00	15,750 00	30 00 10,500 00	0 05 550 00	50 00 2,500 00	40 00 2,000 00	30,000.00	1 25 2,500 00	2,500 00	2,500 00	0 10 300 00	15,000 00	292,205 00	250 Days
A G Tomasello & Son, 250 Stuart St , Boston	3 50 35,000 00	3 50 31,500 00	35,000 00	2,400 00	63,000 00	30,000 00	20 00 2,000 00	6 00 1,200 00	20 00 2,000 00	1 00 250 00	3 00 450 00	10 00 2,000 00	0 80 240 00	1 00 1,200 00	3 00 150 00	90 00 15,750 00	30 00 10,500 00	0 10 1,100 UU	30 00 1,500 00	20 00 1,000 00	20,000 00	2,000 00	2,000 00	5,000 00	3,000 00 3,000 00	10,000 00	278,240 00	250 Days
C & R Const Co., 75 Bradeen St., Roslindsle	2 50 25,000.00	2 50 22,500 00	17,500 00	2 50 2,000 00			20 U0 2,000 U0	5 00 1,000 00	1,000 00	0 10 25 00	3 00 450 00	25 00 1,250 00	0 50 150 00	1 25 1,500 00	# 3 00 150 00	80 00 10,500 00	29 00 10,150 00	0 10 1,100 00	5 00 250 00	2 00 100 00	40,000 00	0 60 1,200 00	2,000 00	16.000 00	0 50 1,500 00	2,000 00	249,325 00	200 Dayn
Wm. J. Barry. 431 Ashland St., Rosindale	10,000 00	40,500 00	52,600 00	3 00 2,400 00	1× 50 64,750 00	16 50 33,000 00	15 00 1,500 00	12 00 2,400 00	15 00 1,500 00	2 00 500 00	2 00 300 00	30 00 1,500 00	1 50 150 00	3,000 00	4 60 200 00	80 t/0 14,000 tin	20 00 7,000 00	0 08 50 00	25 00 1,250 00	18 00 100 00	500 00	0 65 1,300 00	.,1'000 00	500 00	0 50 1,500 00	100 00	243,430 00	250 Days
Westcott & Munroe, 95 High St , N. Attleboro	00 000,x	40,500 00	33,250 00	1 00 800 00	19 00 66,500 00	19 00 35,000 00	25 00 2,500 00	0 00 1,200 00	25 00 2,500.00	0 25 62 50	3 00 450 00	30 00 1,500 00	0 75 225 00	1 00 1,200 00	5 00 250 00	80 00 14,000 00	25 00 8,750 00	0 12 1,320 00	15 00 750 00	12 00 600 00	10.000 00	2,000.00	2,000 00	2,000 00	0 75 2,250 00	2,000 00	242,607 50	275 Days
M F. Gaddin, 6 Beacon St Boston	1 50 15,000 00	5 00 45,000 00	25 000 00				20 00 2 000 00	8 00 1,000 00	20 00 2,000 00	1 00 250 00	3 60 525 00	50 00 2,500 00	1 00 300 00	1,500 00	4 00 200 00	83 00 14,525 00	30 OH 10,500 CH	0 15 1,050 00	8 00 300 00	6 00 300 00	1,000 00	0 50 1,000 00	2,000 00	2,000 00	1,500 00	15,000 00	241,550 00	300 Days
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Contract awarded to M. F. Guddis, September 4, 1928



APPENDIX XXVI.

BIDS FOR CONCRETE WALLS, ROADWAY, ETC., PARKING AREA, ASH-MONT STATION, DORCHESTER RAPID TRANSIT. SEPTEMBER 19, 1928.

Bidder.	Estimated Price .	Time.
A. G. Tomasello & Son, Inc. Appel & O'Toole. L. S. Kaufman & Company. M. Solimando. Alphonsus L. Walsh * Banspar Construction Company.	12,237 50 11,454 .25 10,467 .50	45 days 90 " 35 " 45 " 20 " 43 "

^{*} Awarded. Contract 921.

APPENDIX XXVII.

BIDS FOR SHELTER IN CONNECTION WITH PARKING AREA, ASHMONT STATION, DORCHESTER RAPID TRANSIT. OCTOBER 18, 1928.

BIDDER.	Estimated Price.	Time.
William J. Sheils	\$2,980.00	12 days
Reynolds Brothers, Inc.	2,975.00	40 "
P. J. Cantwell & Son.	2,784.00	45 "
M. S. Kelliher Company	2,553.00	35 "
Thomas Mulcare, Inc	2,487.00	45 "
Suffolk Construction Company	2,440.00	30 "
M. Solimando	2,395.00	20 "
M. Spinelli & Sons	2,375.00	24 "
C. & C. Construction Company, Inc	2,323.00	36 wkg. days
Banspar Construction Company, Inc	2,263.00	25 days
Alphonsus L. Walsh	2,250.00	20 days 20 "
James S. Mozzicato	2,000.00	40 "
J. A. Singarella	1,885.00	30 "
Guiney & Hanson Construction Com-	1,000.00	50
	1,787.00	30 "
pany The Norris Company *	1,700.00	21 "

^{*} Awarded. Contract 923.

APPENDIX XXVIII.

BIDS FOR STAIRWAYS, BRIDGE, CANOPY AND FOOTWALK, COLUMBIA STATION, DORCHESTER RAPID TRANSIT. OCTOBER 29, 1928.

Bidder.	Estimated Price.
Coleman Brothers, Inc. M. F. Gaddis. A. G. Tomasello & Son, Inc.*	20,900.00

^{*} Awarded. Contract 924.











